



**GENERAL EDUCATION COURSE-
BASED ASSESSMENT – IT'S EASIER
THAN YOU THINK!**

2022-2023

OVERVIEW

- Teach ALL of the knowledge and skills that we want our graduates to have
- Assess how well students learn it (every 4 years)
- Analyze and Report the results (CAR)
- Revise the course

TIP: Plan now to efficiently and effectively collect data.

RECENT CHANGES

- Historical Perspectives
 - Renamed Historical Analysis
 - New student learning outcomes
- Added a new student learning outcome for U.S. Diversity
- Collaboration - requires a group project over a “significant portion of the semester”

TEACH, ASSESS, REPORT, REVISE

Faculty teach and assess both Knowledge and Skills Student Learning Outcomes (SLOs)

Knowledge SLO (1-3/class)

Skills SLOs (2/Foundations and Cultures, 3 for Issues – more if it double-dips):

- Collaboration
- Critical Thinking
- Ethical Reasoning
- Information Literacy
- Integration
- Oral Communication
- Problem Solving
- Quantitative Literacy
- Written Communication

TEACH, ASSESS, REPORT, REVISE

TIP: Throughout the semester, fill out sections of the Course Assessment Report (CAR) – how you taught an SLO.

TEACH, **ASSESS**, REPORT, REVISE

- Assessment measure-something you grade
- You must use the GE rubric to assign assessment ratings (1-4)
- Assess towards the end of the term
- Measure student learning only 1 time/outcome
- Share the assessment results with students so they know where they need to focus their efforts

TEACH, **ASSESS**, REPORT, REVISE

TIP: Assess different objectives using different measures at different times

- It helps balance your workload
- It helps you avoid a critical error

TEACH, **ASSESS**, REPORT, REVISE



You cannot use a grade to assign a rating (3 is not a B) because a grade on an exam/report/presentation assesses many things instead of a single thing.

TEACH, ASSESS, REPORT, REVISE

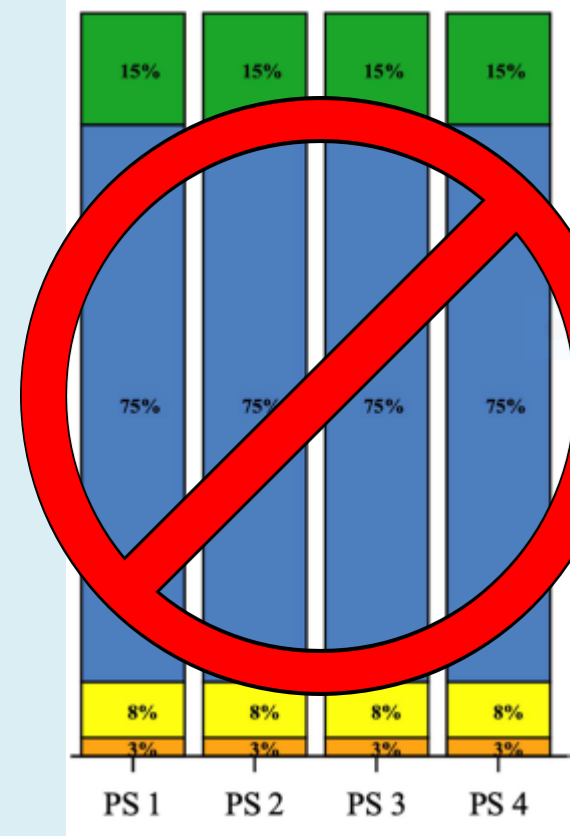


You can't use a group project for assessment unless you can evaluate what EACH student did.

TEACH, ASSESS, REPORT, REVISE



One measure can be used to rate students for several SLOs or objectives, but you must evaluate each SLO or objective separately.



TEACH, **ASSESS**, REPORT, REVISE

TIP: Once you assess student learning, fill out the section of the Course Assessment Report (CAR) about how you assessed it (don't wait until the end of the semester).

Knowledge Rubric

“One exposure” model: Students have only one or two exposures to the Knowledge SLO; therefore, the goal is for students to achieve Level 3 after a single course.

A student – regardless of major – demonstrates:

4=advanced understanding

3=basic understanding

2=substantial progress toward a basic understanding

1=very limited understanding

0=no understanding

Blank=did not complete assignment, test, etc.

Assessing Knowledge SLOs

- Knowledge SLOs are broad (make sure the students “see the forest for the trees”)
- You can reword the Knowledge SLO and ask it as a test question
- **Tip:** Do **not** use the same question to assess more than one Knowledge SLO

Skills Rubric (see the specific Skill rubric for more information)

“Tree ring” model - Students have multiple exposures to the Skills SLOs; therefore, we do not anticipate students receiving a Level 4 rating after a single course (but we do anticipate it by graduation).

Student Performance Levels

4 = Accomplished

3 = Satisfactory

2 = Progressing

1 = Emerging

0 = Below Emerging

Blank = did not complete assignment, test, etc.

Rubric for a Skill SLO

Objectives

Student Ratings

ETHICAL REASONING RUBRIC

Ethical Reasoning: Apply ethical principles and codes of conduct to decision making.				
OBJECTIVES <i>(Items in italics below are definitions or examples)</i>	ACCOMPLISHED (4)	SATISFACTORY (3)	PROGRESSING (2)	EMERGING (1)
Identify Ethical Issues	Recognizes ethical issues when presented in a complex, multilayered (gray) context <u>and</u> can recognize interrelationships among the issues.	Recognizes ethical issues when issues are presented in a complex, multilayered (gray) context <u>or</u> can recognize interrelationships among the issues.	Recognizes basic and obvious ethical issues but incompletely recognizes the interrelationships among the issues.	Recognizes basic and obvious ethical issues but does not recognize the interrelationships among the issues.
Identify Ethical Theories	Names the major ethical theory or theories used, presents the gist of said theory or theories, and thoroughly and accurately explains the details of the theory or theories used.	Names the major ethical theory or theories used, presents the gist of said theory or theories, and accurately explains the details of the theory or theories used.	Names the major ethical theory used, presents the gist of the named theory, but important details are missing or inaccurate.	Names the major ethical theory used.
Apply Ethical Theories	Applies ethical theories to a complex issue accurately and considers the full implications of the application.	Applies ethical theories to a complex issue accurately and considers most of the implications of the application.	Applies ethical theories to a complex issue inaccurately; some of the implications are discussed.	Applies ethical theories to a complex issue inaccurately; few of implications are discussed.
Take and Support an Ethical Position <i>includes assumptions, implications, objections</i>	States a position in-depth and effectively defends against other ethical perspectives.	States a position in-depth and partially defends against other ethical perspectives.	States a position in-depth but cannot defend against other ethical perspectives.	States a position briefly but cannot defend against other ethical perspectives.

This rubric was inspired by the AAC&U VALUE rubric.

6/21/2019

TEACH, ASSESS, REPORT, REVISE

General Education Course Assessment

4. How do I assess the SLOs?

5. Where do I enter my data?

Preparing to Assess a Course

TRAINING

ASSESSMENT SITE LOGIN

RUBRICS AND SLOS



COURSE ASSESSMENT REPORTS (CARS)

COURSE ASSESSMENT CYCLE

SLO BY COURSE

CARS and SLOs

GEN 100	GEN 100	GEN 100
GEN 101	GEN 101	GEN 101
GEN 102	GEN 102	GEN 102
GEN 103	GEN 103	GEN 103
GEN 104	GEN 104	GEN 104
GEN 105	GEN 105	GEN 105
GEN 106	GEN 106	GEN 106
GEN 107	GEN 107	GEN 107
GEN 108	GEN 108	GEN 108
GEN 109	GEN 109	GEN 109
GEN 110	GEN 110	GEN 110
GEN 111	GEN 111	GEN 111
GEN 112	GEN 112	GEN 112
GEN 113	GEN 113	GEN 113
GEN 114	GEN 114	GEN 114
GEN 115	GEN 115	GEN 115
GEN 116	GEN 116	GEN 116
GEN 117	GEN 117	GEN 117
GEN 118	GEN 118	GEN 118
GEN 119	GEN 119	GEN 119
GEN 120	GEN 120	GEN 120

GRAND VALLEY STATE UNIVERSITY
GENERAL EDUCATION PROGRAM
ASSESSMENT CYCLE

2018-2019	2019-2020	2020-2021
ART 101	ART 101	ART 101
ART 102	ART 102	ART 102
ART 103	ART 103	ART 103
ART 104	ART 104	ART 104
ART 105	ART 105	ART 105
ART 106	ART 106	ART 106
ART 107	ART 107	ART 107
ART 108	ART 108	ART 108
ART 109	ART 109	ART 109
ART 110	ART 110	ART 110
ART 111	ART 111	ART 111
ART 112	ART 112	ART 112
ART 113	ART 113	ART 113
ART 114	ART 114	ART 114
ART 115	ART 115	ART 115
ART 116	ART 116	ART 116
ART 117	ART 117	ART 117
ART 118	ART 118	ART 118
ART 119	ART 119	ART 119
ART 120	ART 120	ART 120

GRAND VALLEY STATE UNIVERSITY
General Education Course with Student Learning Outcomes

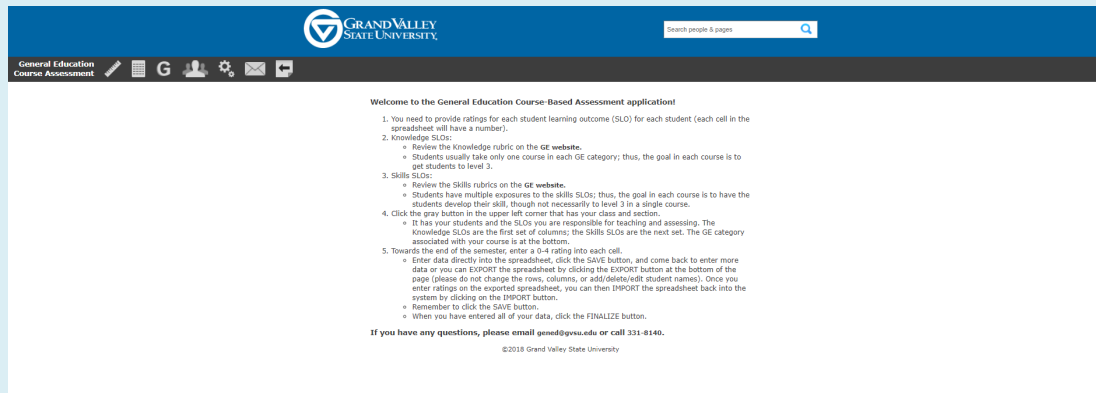
Course	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8	SLO 9	SLO 10
GEN 100										
GEN 101										
GEN 102										
GEN 103										
GEN 104										
GEN 105										
GEN 106										
GEN 107										
GEN 108										
GEN 109										
GEN 110										
GEN 111										
GEN 112										
GEN 113										
GEN 114										
GEN 115										
GEN 116										
GEN 117										
GEN 118										
GEN 119										
GEN 120										

ABBREVIATION KEY

Abbreviation	Department
ART	Art
BUS	Business Administration
COM	Communication
EDU	Education
ENG	English
FIN	Finance
GEN	General Education
HIS	History
INT	International Studies
LAB	Laboratory Science
LIT	Literature
MAT	Mathematics
MUS	Music
NAT	Natural Science
PHI	Philosophy
PSY	Psychology
REL	Religion
SCI	Science
SOC	Social Science
THE	Theater
WRT	Writing

TEACH, ASSESS, REPORT, REVISE

Main Page of the Assessment Site



The screenshot shows the main page of the General Education Course Assessment application. At the top, there is a blue header with the Grand Valley State University logo and a search bar. Below the header is a dark gray navigation bar with the text "General Education Course Assessment" and several icons. The main content area is white and contains a welcome message and a list of instructions for users.

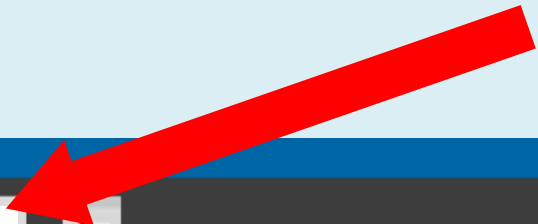
Welcome to the General Education Course-Based Assessment application!

1. You need to provide ratings for each student learning outcome (SLO) for each student (each cell in the spreadsheet will have a number).
2. Knowledge SLOs:
 - Review the Knowledge rubric on the [GE website](#).
 - Students usually take only one course in each GE category; thus, the goal in each course is to get students to level 3.
3. Skills SLOs:
 - Review the Skills rubrics on the [GE website](#).
 - Students have multiple exposures to the skills SLOs; thus, the goal in each course is to have the students develop their skill, though not necessarily to level 3 in a single course.
4. Click the gray button in the upper left corner that has your class and section.
 - It has your students and the SLOs you are responsible for teaching and assessing. The Knowledge SLOs are the first set of columns; the Skills SLOs are the next set. The GE category associated with your course is at the bottom.
5. Towards the end of the semester, enter a 0-4 rating into each cell.
 - Enter data directly into the spreadsheet, click the SAVE button, and come back to enter more data or you can EXPORT the spreadsheet by clicking the EXPORT button at the bottom of the page (please do not change the rows, columns, or add/delete/edit student names). Once you enter ratings on the exported spreadsheet, you can then IMPORT the spreadsheet back into the system by clicking on the IMPORT button.
 - Remember to click the SAVE button.
 - When you have entered all of your data, click the FINALIZE button.

If you have any questions, please email gened@gvsu.edu or call 331-8140.

©2018 Grand Valley State University

Click here for your course and section



General Education
Course Assessment

NRM 140

Welcome to the General Education Course-Based Assessment application!

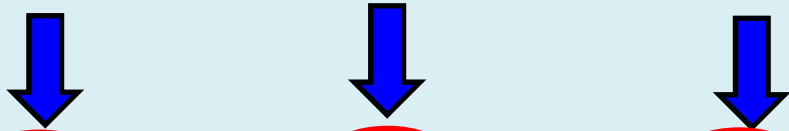
TEACH, ASSESS, REPORT, REVISE

Export the spreadsheet or enter your data online

Line	Knowledge SLO	Knowledge SLO	Knowledge SLO	Knowledge SLO	Knowledge SLO	Collaboration	Collaboration	Collaboration	Collaboration	Critical Thinking	Critical Thinking	Critical Thinking	Critical Thinking	Ethical Reasoning	Ethical Reasoning	Ethical Reasoning	Ethical Reasoning
						Collaboration: Effectively work on a team.	Collaboration: Effectively work on a team.	Collaboration: Effectively work on a team.	Collaboration: Effectively work on a team.	Critical Thinking: Comprehensively evaluate issues, <i>class artifacts or</i>	Critical Thinking: Comprehensively evaluate issues, <i>class artifacts or</i>	Critical Thinking: Comprehensively evaluate issues, <i>class artifacts or</i>	Critical Thinking: Comprehensively evaluate issues, <i>class artifacts or</i>	Ethical Reasoning: Apply ethical principles and <i>codes of conduct</i>	Ethical Reasoning: Apply ethical principles and <i>codes of conduct</i>	Ethical Reasoning: Apply ethical principles and <i>codes of conduct</i>	Ethical Reasoning: Apply ethical principles and <i>codes of conduct</i>
Edge	Explain principles and questions that define philosophy in literature and its	Explain the relationship between the works	Analyze and interpret one or more primary texts as a major portion	Explain how culture affects peoples efforts to understand, use	Explain within a cultural context the worldviews, language, or ways												
ive						Helps the team move forward by articulating the merits of	Engages team members in ways that facilitate their contributions to	Completes all assigned tasks by the deadline; work accomplished is	Actively promotes a constructive team climate.	States an issue clearly and describes it comprehensively	Uses appropriate evidence that includes relevant context(s) which	Develops a position that thoroughly takes into account the complexities of	Develops conclusions, implications, and	Recognizes ethical issues when presented in a complex	Names the major ethical theory or theories used, presents the rest of	Applies ethical theories to a complex issue accurately and	States a position in-depth and effectively defends against other
175																	
184																	
193																	
202																	
211																	
220																	
229																	
238																	
247																	
256																	
265																	
274																	
283																	
292																	
301																	
310																	
319																	
328																	
337																	
346																	
355																	
364																	
373																	
382																	
391																	
400																	
409																	
418																	
427																	
436																	
445																	
454																	
463																	
472																	
481																	
490																	
499																	
508																	
517																	
526																	
535																	
544																	
553																	
562																	
571																	
580																	
589																	
598																	
607																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
	Philosophy and Literature Foundation	Philosophy and Literature Foundation	Philosophy and Literature Foundation	Global Perspectives Culture	Global Perspectives Culture	Global Perspectives Culture	Global Perspectives Culture	Global Perspectives Culture	Global Perspectives Culture	Global Perspectives Culture	Global Perspectives Culture	Global Perspectives Culture	Global Perspectives Culture	Philosophy and Literature Foundation	Philosophy and Literature Foundation	Philosophy and Literature Foundation	Philosophy and Literature Foundation

TEACH, ASSESS, REPORT, REVISE

Skills SLOs: Enter a rating for each objective for each SLO (there are 3-5 objectives for each SLO).



	Knowledge SLO	Knowledge SLO	Knowledge SLO	Knowledge SLO	Knowledge SLO	Collaboration	Collaboration	Collaboration	Collaboration	Critical Thinking	Critical Thinking	Critical Thinking	Critical Thinking	Ethical Reasoning	Ethical Reasoning	Ethical Reasoning	Ethical Reasoning																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
	Explain principles and questions that define philosophy or literature and its	Explain the relationship between the works discussed the	Analyze and interpret one or more primary texts as a major notion	Explain how culture affects peoples efforts to understand	Explain within a cultural context the worldviews	Effectively work on a team.	Effectively work on a team.	Effectively work on a team.	Effectively work on a team.	Comprehensively evaluate issues, ideas, artifacts, or	Comprehensively evaluate issues, ideas, artifacts, or	Comprehensively evaluate issues, ideas, artifacts, or	Comprehensively evaluate issues, ideas, artifacts, or	Apply ethical principles and	Apply ethical principles and	Apply ethical principles and	Apply ethical principles and																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Objective						Helps the team move forward by articulating the	Engages team members in ways that facilitate their	Completes all assigned tasks by deadline; work	Actively promotes a constructive team climate.	States an issue clearly and describes it	Uses appropriate evidence that includes relevant	Develops a position that thoroughly takes into account	Develops conclusions, implications, and	Recognizes ethical issues when presented in a	Names the major ethical theory or theories used,	Applies ethical theories to a complex issue	States a position in-depth and effectively defends																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
175																		148																		139																		137																		127																		119																		118																		117																		116																		115																		114																		113																		112																		111																		110																		109																		108																		107																		106																		105																		104																		103																		102																		101																		100																		99																		98																		97																		96																		95																		94																		93																		92																		91																		90																		89																		88																		87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																	
148																		139																		137																		127																		119																		118																		117																		116																		115																		114																		113																		112																		111																		110																		109																		108																		107																		106																		105																		104																		103																		102																		101																		100																		99																		98																		97																		96																		95																		94																		93																		92																		91																		90																		89																		88																		87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																			
139																		137																		127																		119																		118																		117																		116																		115																		114																		113																		112																		111																		110																		109																		108																		107																		106																		105																		104																		103																		102																		101																		100																		99																		98																		97																		96																		95																		94																		93																		92																		91																		90																		89																		88																		87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																					
137																		127																		119																		118																		117																		116																		115																		114																		113																		112																		111																		110																		109																		108																		107																		106																		105																		104																		103																		102																		101																		100																		99																		98																		97																		96																		95																		94																		93																		92																		91																		90																		89																		88																		87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																							
127																		119																		118																		117																		116																		115																		114																		113																		112																		111																		110																		109																		108																		107																		106																		105																		104																		103																		102																		101																		100																		99																		98																		97																		96																		95																		94																		93																		92																		91																		90																		89																		88																		87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																									
119																		118																		117																		116																		115																		114																		113																		112																		111																		110																		109																		108																		107																		106																		105																		104																		103																		102																		101																		100																		99																		98																		97																		96																		95																		94																		93																		92																		91																		90																		89																		88																		87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																											
118																		117																		116																		115																		114																		113																		112																		111																		110																		109																		108																		107																		106																		105																		104																		103																		102																		101																		100																		99																		98																		97																		96																		95																		94																		93																		92																		91																		90																		89																		88																		87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																													
117																		116																		115																		114																		113																		112																		111																		110																		109																		108																		107																		106																		105																		104																		103																		102																		101																		100																		99																		98																		97																		96																		95																		94																		93																		92																		91																		90																		89																		88																		87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																															
116																		115																		114																		113																		112																		111																		110																		109																		108																		107																		106																		105																		104																		103																		102																		101																		100																		99																		98																		97																		96																		95																		94																		93																		92																		91																		90																		89																		88																		87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																	
115																		114																		113																		112																		111																		110																		109																		108																		107																		106																		105																		104																		103																		102																		101																		100																		99																		98																		97																		96																		95																		94																		93																		92																		91																		90																		89																		88																		87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																			
114																		113																		112																		111																		110																		109																		108																		107																		106																		105																		104																		103																		102																		101																		100																		99																		98																		97																		96																		95																		94																		93																		92																		91																		90																		89																		88																		87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																					
113																		112																		111																		110																		109																		108																		107																		106																		105																		104																		103																		102																		101																		100																		99																		98																		97																		96																		95																		94																		93																		92																		91																		90																		89																		88																		87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																							
112																		111																		110																		109																		108																		107																		106																		105																		104																		103																		102																		101																		100																		99																		98																		97																		96																		95																		94																		93																		92																		91																		90																		89																		88																		87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																									
111																		110																		109																		108																		107																		106																		105																		104																		103																		102																		101																		100																		99																		98																		97																		96																		95																		94																		93																		92																		91																		90																		89																		88																		87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																											
110																		109																		108																		107																		106																		105																		104																		103																		102																		101																		100																		99																		98																		97																		96																		95																		94																		93																		92																		91																		90																		89																		88																		87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																													
109																		108																		107																		106																		105																		104																		103																		102																		101																		100																		99																		98																		97																		96																		95																		94																		93																		92																		91																		90																		89																		88																		87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																															
108																		107																		106																		105																		104																		103																		102																		101																		100																		99																		98																		97																		96																		95																		94																		93																		92																		91																		90																		89																		88																		87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																	
107																		106																		105																		104																		103																		102																		101																		100																		99																		98																		97																		96																		95																		94																		93																		92																		91																		90																		89																		88																		87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																			
106																		105																		104																		103																		102																		101																		100																		99																		98																		97																		96																		95																		94																		93																		92																		91																		90																		89																		88																		87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																					
105																		104																		103																		102																		101																		100																		99																		98																		97																		96																		95																		94																		93																		92																		91																		90																		89																		88																		87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																							
104																		103																		102																		101																		100																		99																		98																		97																		96																		95																		94																		93																		92																		91																		90																		89																		88																		87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																									
103																		102																		101																		100																		99																		98																		97																		96																		95																		94																		93																		92																		91																		90																		89																		88																		87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																											
102																		101																		100																		99																		98																		97																		96																		95																		94																		93																		92																		91																		90																		89																		88																		87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																													
101																		100																		99																		98																		97																		96																		95																		94																		93																		92																		91																		90																		89																		88																		87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																															
100																		99																		98																		97																		96																		95																		94																		93																		92																		91																		90																		89																		88																		87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
99																		98																		97																		96																		95																		94																		93																		92																		91																		90																		89																		88																		87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
98																		97																		96																		95																		94																		93																		92																		91																		90																		89																		88																		87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
97																		96																		95																		94																		93																		92																		91																		90																		89																		88																		87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
96																		95																		94																		93																		92																		91																		90																		89																		88																		87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
95																		94																		93																		92																		91																		90																		89																		88																		87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
94																		93																		92																		91																		90																		89																		88																		87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
93																		92																		91																		90																		89																		88																		87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
92																		91																		90																		89																		88																		87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
91																		90																		89																		88																		87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
90																		89																		88																		87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
89																		88																		87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
88																		87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
87																		86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
86																		85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
85																		84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
84																		83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
83																		82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
82																		81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
81																		80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
80																		79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
79																		78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
78																		77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
77																		76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
76																		75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
75																		74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
74																		73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
73																		72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
72																		71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
71																		70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
70																		69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
69																		68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
68																		67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
67																		66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
66																		65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
65																		64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
64																		63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
63																		62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
62																		61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
61																		60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
60																		59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
59																		58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
58																		57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
57																		56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
56																		55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
55																		54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
54																		53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
53																		52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
52																		51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
51																		50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
50																		49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
49																		48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
48																		47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
47																		46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
46																		45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
45																		44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
44																		43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
43																		42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
42																		41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
41																		40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
40																		39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
39																		38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
38																		37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
37																		36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
36																		35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
35																		34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
34																		33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
33																		32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
32																		31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
31																		30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
30																		29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
29																		28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
28																		27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
27																		26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
26																		25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
25																		24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
24																		23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
23																		22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
22																		21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
21																		20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
20																		19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
19																		18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
18																		17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
17																		16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
16																		15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
15																		14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
14																		13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
13																		12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
12																		11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
11																		10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
10																		9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
9																		8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
8																		7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
7																		6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
6																		5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
5																		4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
4																		3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
3																		2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
2																		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

Objectives



Enter a 1, 2, 3, 4 in every cell (or a blank if they did not submit it or 0 if they are below Level 1)

TEACH, **ASSESS**, REPORT, REVISE

Submit data to the Assessment site by December 23 for Fall and May 5 for Winter.

We'll email you tables and figures of your results.

TEACH, ASSESS, **REPORT**, REVISE



- **In the CAR, describe:**
 - How you taught the SLOs
 - How you assessed the SLOs
 - What you learned
 - How you plan to revise the course (teaching and/or assessing)
- **Write 1 CAR** – jointly – for all sections that collected data
- **Submit the CAR by January 20 for Fall and May 19 for Winter**
- **Email the CAR to:** gened@gvsu.edu

TEACH, ASSESS, REPORT, **REVISE**

- **GEC will review your report and send you comments.**
- **Next time you teach the course, revise how you teach and/or assess the course based on what you learned and GEC's feedback on your report !!**

Call or email gened@gvsu.edu if you have questions!!