Self-Grading Guide & Instructions

The objective of the problem sets is for you to **practice solving problems**. In a few small cases, the right answer will be a good indication of your understanding. In most other cases, your **thought process** will be a better indication as to whether you are grasping the material.

Some of the concepts in the course take a while to sink in, so it wouldn't be fair to grade purely on *correctness*. That would mean you need to be an expert on the material in less than a week, which isn't very fair. Instead, you will mostly be graded on **effort** and **thought process**. Please keep this in mind when self-grading your problem sets.

If you complete your self-assessment, you automatically get the points allocated for the self-assessment, regardless of what you assigned to yourself. The graders will then assign a grade (also based on **effort** and **thought process**) which will account for the remaining points for the assignment.

For each problem, use the following multipliers on the points assigned to the problem to compute your grade for that problem. Then annotate your grade directly in the Feedback PR of your GitHub assignment repository. See Appendix A for instructions on how to submit your solutions and Appendix B for instructions on how to annotate your submission.

Multiplier	Explanation	How to improve
1.0	Correct	Keep it up!
1.0	Minor clerical error	It happens, but be careful.
0.9	Minor conceptual error	Look for more practice problems.
0.8	Major conceptual error	Review the notes and practice more.
0.7	Incorrect approach	Come see me or the course assistants and we'll help!
0.0	No answer	Come see me or the course assistants and we'll help!

As you can see, you get more than half the points for effort. The rest of the points are assigned for conceptual understandings. Minor clerical errors are not penalized, however, if the graders notice this happening several times, then some points will be deducted.

Please note that for problems with multiple parts, the points assigned to each part will either be explicitly stated **or** you should divide the total points assigned for that problem by the number of parts. For example, in a problem with 9 points and 9 parts, each part will be worth 1 point. Please apply the above multipliers to each part and total up your score for the entire problem.

If you correctly solved the **bonus** part of a problem (if there is one), then increase your grade for that particular problem using the next highest multiplier (maximum of 1.0). For example, if you originally had a multiplier of 0.9 for a problem, and you solved the bonus correctly, then use 1.0 instead.

The next page contains instructions on submitting and self-grading your problem sets.

Appendix A: working on and submitting your problem set

Step 1: Links to the problem sets are posted on the class calendar. **Step 2:** Accept the assignment.





Step 4: After refreshing the page, you should see a link to your repository. Click on the link:

You're ready to go!
You accepted the assignment, pset1 .
Your assignment repository has been created:
https://github.com/csci200s24/pset1-philip-middlebury
We've configured the repository associated with this assignment (update).

Step 5: You should now see the problem set template:



Step 6: Edit the README file (click on the pencil icon). Then type your solution:



Step 7: Click on "Preview" to view the rendered Markdown (ensure the equations appear correctly):

E C csci200s24 / pset1-philip-middlebury β	Q + • O n 🖻 🏰				
↔ Code 😳 Issues 🏦 Pull requests 🕦 ⊙ Actions 🖽 Projects 🖽 Wiki	③ Security L Insights				
pset1-philip-middlebury / README.md in rain	Cancel changes Commit changes				
Edit Preview	Show Diff				
Problem Set 1					
Problem 1 (closed book, 50 points)					
Find all roots of the following polynomial:					
$x^3 - 2x^2 + x = 0$					
Solution: Factoring the equation gives:					
$x(x^2-2x+1)=x(x-1)(x-1)=0.$					
Which has the root $x = 1$.					
Problem 2 (open book, 50 points)					
Prove $orall n \in \mathbb{Z}, n$ is even if and only if $5n+3$ is odd.					
[Enter solution here]					

Step 8: Commit your changes to save your work (you can do this many times!):

	philip-middlebury∂ Insquetts 1 ⊙ Actions ⊞ Projects © Wild	Q + • On O 4	
pset1-philip-middlebury /	README nd in main	Cancel changes Commit changes	
Edit Preview		Spaces e 2 e Softwrap e	
1 # Problem Set 1			
3 ## Problem 1 (closed b	and the second		
4	Commit changes	×	
5 Find all roots of the			
7 \$\$	Commit message		
8 x*3 - 2x*2 + x = 0	add solution to problem 1		
9 SS 10			
10 11 Molatiate: Factoring	Extended description		
12	Add an optional extended description.		
13 55	Aut al upstral energies description.		
16 x 1x*2 - 2x + 1) = x (15 96			
15 33			
17 Which has the root \$x.			
18			
19 ## Problem 2 (open bec			
21 Prove \$\forall = \is \	O Commit directly to the main branch		
22	Create a new branch for this commit and start a pull request		
23 #Idntar salutize here. 26	Learn more about pull requests		
	Cancel Commit	changes	

Step 9: Once you have completed the assignment, go back to the main repository page and get the link to the latest commit:



Step 10: Copy the link to the question in the Canvas quiz and submit the quiz. The solutions will now be available on Canvas.

Appendix B: self-grading in a Feedback Pull Request

Step 1: Open the solutions in the Modules section on Canvas.Step 2: Navigate to the Pull Requests tab in your problem set repository:

0	csci200s24	/ pset1-philip-middle	ebury			Q + •	0 n @ (
> Code	 Issues 	1 Pull requests 1	Actions	Projects	🖽 Wiki 🔇	🕽 Security 🖂 Insi	ghts
Filters •	Q is:pris:c	open		5	Labels 9	⇔ Milestones 0	New pull reques
ኒ 1 Open	✓ 0 Closed						
	thor v La	bel • Projects •	Milestones -	Reviews •	Assignee -	Sort -	

Step 3: Click on the Feedback PR and then click on the "Files Changed" section to view the difference between your submission and the template:

0	$csci200s24$ / $pset1-philip-middlebury \oplus$	9 + • O n 🛛 📽
Code	🗇 Issues 🏦 Pull requests 🛞 💮 Actions 🖽 Projects 🖽 Wiki	🗇 Security 🖂 Insights
_	Dack #1	Ealt O Code +
다 Conv	rsation (i) - Commits (i) - E Checks (ii) - E Files changed (i) +7 -1 mmm
Changes fr	orn all commits + File filter + Conversations + Jump to + 🛞 +	0/11lies viewed Review charges *
~ ± 8	README .md 🖓	○ □ ••••
	00 -0,7 +0,53 00 88	
8 8	$x^{*}3 - 2x^{*}2 + x = 0$	
9 9	85	
18 18	- *[Enter solution here]*	
11		
12		
	+ 83	
	$+ x (x^{*}2 - 2x + 1) = x (x - 1) (x - 1) = 0.$	
	- 55	
	 which has the roat \$x = 1\$. 	
12 18		
18 19	A# Problem 2 (open book, 50 points)	
14 20		

Step 4: Check your solution with the solution posted on Canvas. To make a comment on your solution, hover over a particular line and click the + symbol on the left. A box should now open where you can add a comment (also typeset in Markdown):

	Q + + O n 🖻 🕯
Code 💿 Issues 👖 Pull requests 👔 💿 Actions 🖽 Project	ts 🖽 Wiki 🛈 Security 🗠 Insights
eedback #1	Edit 🔷 Code 👻
Open github-classroom wants to merge 2 commits into feedback from	n main 🖓
Conversation 0	es changed 1 +7-1
Changes from all commits \star . File filter \star . Conversations \star . Jump to \star . \textcircled{B} \star	0 / 1 files viewed Review changes +
✓ ÷ 8 ■■■■ README.nd □	↔ 🗋 ⊡ Viewed 📮 …
.t. 00 -8,7 +8,13 00 \$\$	
8 8 x*3 - 2x*2 + x = 0 9 9 \$\$	
10 10 11 - *[Enter solution here]*	
11 + *Solution*: Factoring the equation gives:	
12 + 13 + \$\$	
$14 + x (x^2 - 2x + 1) = x (x - 1) (x - 1) = 0.$	
15 + \$\$ 16 +	
17 🕂 Which has the root \$x = 1\$.	
12 18 13 19 ## Problem 2 (open book, 50 points)	
14 20	
C Conversation 0 - Commits 2 🖪 Checks 0 🗄 Fi	les changed 1 +7 -1 ====
	les changed 1 +7 -1 ==== 0/1 files viewed Review changes +
Changes from all commits × File filter × Conversations × Jump to × (§) + × + 0 mmm ROLAVE.nd (2) 2. (00 − 0, 7 + 0, 13 (0) 55	0/11fles viewed Review changes •
Changes from all commits + File filter + Conversations + Jump to + ⊕ +	0/11fles viewed Review changes •
Chargestron al commits + Tile fiber + Conversations + Jump ts + ⊕ + → + 6 maximi #LDOIt.nd ⊕ 1. (0) -0, 7 +0,13 02 55 6 6 6 1 + 13 - 2 + 2 + 2 + 0 1 1 10 1	0/11fles viewed Review changes •
Changes from al commits + Rile filter + Conversations + Jump Is + ⊕+ → + 0 mmm RAOME.nd (D 1. (0 - n, -1, -1, 1) 20 55 8 I + 13 - 21'2 + x = 0 9 9 55 10 10 11 + (Enter solution here)+	0/1 files viewed Review changes +
Changes from al commits + File filter + Conversations + Jump ta + ⊕ + → + 0 mmm RLAPHE, nd ⊕ 1. 00 - 0, -0, -0, 13, 30 35 8 8 0 + 33 - 2x^2 + x = 0 9 9 55 13 1 + 450 attions + Factoring the equation gives: 12 +	0/1 files viewed Review changes +
Charges from al commits + File fiber + Conversations + Jump Is + ⊕ + → ± 0 mmm = REAME.nd (⊕ I. (0 - 47, -14, 13 30 55 0 - 0 55 0 - 0 55 1 - +(Date: solution here)* 1 - +(Date: soluti	0/1 files viewed Review changes +
Changes from al commits + File filter + Conversations + Jump ta + ⊕ + → + 0 mmm RLAPHE, nd ⊕ 1. 00 - 0, -0, -0, 13, 30 35 8 8 0 + 33 - 2x^2 + x = 0 9 9 55 13 1 + 450 attions + Factoring the equation gives: 12 +	0/1 files viewed Review changes +
Comparison at commute * His fiber * Conversations * Jump to * \textcircled{O} * \checkmark * a manual #LUME.not \textcircled{O} 2. (0) -0, 7 +0, 13 92 85 5 0 0 -0, 7 +0, 13 92 85 5 0 -0 + 3^2 - 2^2 + x = 0 5 10 -0 + (-1) + (-	0/1 files viewed Review changes +
Comparison of a committin + This filter + Conversations + Jump to + \textcircled{O} + \checkmark + \textcircled{O} = 0 means : H2/OPE, and \textcircled{O} $\begin{array}{c} \hline \hline \\ $	O/1 Hea viewed Concern changes -
Comparison of a committin + This filter + Conversations + Jump to + \textcircled{O} + \checkmark + \textcircled{O} = 0 means : H2/OPE, and \textcircled{O} $\begin{array}{c} \hline \hline \\ $	0/1 files viewed Review changes +
Congestion al commits + Hie Hier + Conversations + Jump to + ⊕ + → + + + + + + + + + + + + + + + + + + +	0/11fles viewed
$ \begin{array}{c} Congestion all commits + Hiel Hier + Conversations + Jump to + $$$ + $$$ + $$$ + $$$ + $$$ + $$$ + $$$$ + $$$ + $$$ + $$$$ + $$$ + $$$$ + $$$$ + $$$$ + $$$$ + $$$$ + $$$$ + $$$$ + $$$$ + $$$$ + $$$$ + $$$$ + $$$$$ + $$$$$ + $$$$$ + $$$$$ + $$$$$$$	0/11/de viewed
$ \begin{array}{c c} \mbox{Conservations + } & \mbox{He} $	0/11/de viewed
Congestion all commits + Tile filter + Conversations + Jump to + \textcircled{O} + \checkmark + \textcircled{O} + \rule{O} + $$	0/11/de viewed
Congention at commits \bullet . The filter \bullet Conversations \bullet . Jump to \bullet $\textcircled{O} \bullet$ \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet	0/1 Hea viewed

딨) Conve	rsation 0 - Commits 2 E. Checks 0 E Files changed 1		+7 -1 💷
Changes fri	orn all commits + File filter + Conversations + Jump to + 183 +	0 / 1 files viewed	Review change
v ‡ 8	README.md []	↔ D	Viewed
. <u>.</u> .	00 -8,7 +8,13 00 \$\$		
8 8 9 9 10 10	$x^3 - 2x^2 + x = 0$ \$\$		
12 13 14 15 16	- «Effect solution hore)» + «Solution»: Factoring the equation gives: + + SS + x (x ² 2 - 2x + 1) = x (x - 1) (x - 1) = 0. + SS + + Which has the root Sx = 1S.		
	ilp-middlebury now uld also include $x=0.$ Minor conceptual error: points = $0.9 \times 50 = 45.$		
	e conversation		

Step 5: Click "Add single comment". Do not click "Resolve conversation".

Step 6: Once you have made comments on all the problems, start a review by clicking "Review Changes" at the top-right of the PR. List the points for each problem and add them up, then select "Approve" and click "Submit review". **Please do not "Merge" the pull request!**

Feedback #1 Topen github-classroom wants to merge 2 commits into feedback from main r	Edit Code -
Conversation 0 → Commits 2 E Checks 0 E Files changed 1 Charces from all commits + File filter + Conversations + Jump to + ֎ + 0/1 file	+7 -1
→ + 8 BERE README.md []	×
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	9∃ 0 0 0 5
Reply Resolve conversation 12 18 13 19 ## Problem 2 (open book, 50 points) 14 20 T	Submit review

The graders will then review your submission, make additional comments and enter the final grade for the problem set in Canvas.

If you're not sure about something, please tag the graders team by adding @graders in your comment. We will be notified that you have a question and will respond directly in the Feedback PR.