COS125 - Precept 1 (Hello World)

1 Ice Breaker

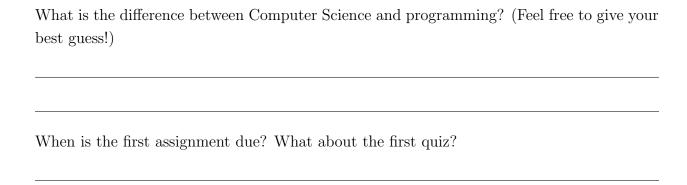
Fun Facts

| Form a group of 3-4. | Choose a role | below. | Record | one f | un fact | about | each | person. |
|----------------------|---------------|--------|--------|-------|---------|-------|------|---------|
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| • Leader: Keeps the group on task. | | | | |
|--|--|--|--|--|
| • Recorder: Writes down the group's responses. | | | | |
| • Reporter: Delivers a report about the group. | | | | |
| • Checker: Supervises the other roles. | | | | |
| | | | | |

Questions

What do you hope to get out of this course?



Resources & Profile Picture

Check that you can access all of the course resources needed in the first week: Ed, PrairieLearn and TigerFile.

Also, please upload a profile picture on Ed! If you're not comfortable showing your face, that's perfectly fine: feel free to upload any image that you like.

2 Programming Hands-on!

Hello World

First make sure you have IntelliJ installed; then download hello.zip from the assignment webpage, unzip, and open the hello folder with IntelliJ.

Create a new Class called HelloWorld and fill it in so that the program prints Hello World. Compile and run. Then upload it to TigerFile and verify that your program passes the autograder tests.

Command-line Arguments

Now download precept1.zip from the precepts webpage. Unzip and open the project folder. Compile Mystery.java then run it with one, two, and three command-line arguments. What happens in each case? What does the program do?

Now open Mystery.java and modify this program so that it does something interesting with more command-line arguments.

Calculator

Write a program Sum.java that takes in two integer command-line arguments and prints their sum. (You may find the function Integer.parseInt() useful.)

Write another program Quotient.java that takes in two integer command-line arguments and prints their ratio. Then run it on the following pairs of numbers:

- 4 2
- 5 2
- 1 0

Can you explain the result in each case?

Calculator (with doubles)

Write QuotientDoubles.java but use Double.parseDouble() to interpret the command-line arguments as doubles instead of integers and run it on the pairs of numbers above. (Feel free to implement SumDoubles.java and anything else you feel inclined to!)