

## Assignment 01

### Part 1: Debugging

## Question 1

When running a debugger in an IDE, what is the difference between step over and step into.

*Solution*

**Step into** urges the debugger to go through a function to debug it

**Step over** urges the debugger to just execute the function while going through the target function to step into it

## Question 2

Describe how to run the debugger in your favorite IDE.

*Solution*

Depending on the IDE used: for instance, to debug in IntelliJ,

- 1- Click once next to the function I would like the debugger to step into, a breakpoint
- 2- Then, hit the "Debug" icon

The following would execute every function before the breakpoint, then debug the function at the breakpoint in details.

## Question 3

Describe when you would use a debugger and when the debugger may not show you a bug in your code.

*Solution*

From my previous experience in CS classes, debugger always failed to properly show the bugs within my breakpoint if I changed, added, or deleted any lines of code while being in the debugging mode.

Also, some softwares cannot be properly debugged on other machines the same way it can on the local machine

## Part 2: Time Complexity

## Question 1

Find the screenshots in the main folder

### Part 3: Reading in from a file

#### Question 4

Write a program that reads the contents of a `input.txt` file and print the contents of each word in its own line. You MAY NOT USE ABSOLUTE FILE PATHS. Absolute file paths will cause your code to FAIL to run on any machine other than yours. Only use relative file paths.

*Submit your program as either a git repo or zip up the entire project and provide the zipped*