

Debugging Quiz

Description

During Week 6 (starting Monday 10/4), we will have quiz 2 (the debugging quiz). It will be done via zoom, one-on-one with a TA, and should take less than 10 minutes to complete. You will not have in-person lab sessions on Mon. (10/4) and Wed. (10/6) of Week 6. Instead you will take the debug quiz at a predetermined time and watch a recording of a lab lecture (you can watch the recording on whatever day you don't have to take the quiz).

A TA (not necessarily your teaching TA) will contact you this week with the time of your quiz. Please make sure you check whatever email account you provided to the University for the email with your quiz time, and confirm you got it with a reply to the TA. The TAs will schedule your quiz during your Mon. or Wed. lab time, which are times that you should have reserved for CMSC 132. If you have a valid reason for why you cannot be available at your assigned time, you can discuss that with the TA **AFTER** you receive the email with your time.

At the end of Week 5, I will post the code for the debug quiz and some pre-quiz time instructions. Follow the instructions so that you can be ready for the quiz at the start of Week 6. Based on the time you get, your quiz may be as early as 8AM on Monday 10/4 (i.e. first discussion time) or as late as Wed. 10/6. **If you have any questions about debugging, please ask/post on Piazza this week. Once the code is distributed at the end of Week 5, we will not answer any questions about using the debugger until the quiz is over.** As students are taking the quiz at different times, I ask that you please do not discuss or post about the contents of the quiz until all students have taken it.

To prepare for the quiz, you should be able to do the following things:

1. Understand and be able to switch from the Java and Debug Perspectives and run the code in each
2. Set line numbers by right-clicking on the left column of the code page.
3. Set and remove breakpoints.
4. Step into, step over, and step return from a method.
5. Display variables, parameters, and member field values.
6. Continue program execution after a breakpoint and terminate a debug session.
7. Switch between the stack frame of one method to another.

Resources

1. Debugger Lecture Videos

Fall 2020

<https://umd.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=7583722e-4d20-4502-a333-abd400960e32> – (starting at 34:00)

<https://umd.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=b3847176-0bea-4295-99ac-abd50015351e> – (start to 6:45)

Fall 2021

<https://umd.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=aaa725e0-e076-44f7-8466-ada901081991> – (36:15 to end)

2. Code used in Debugger Lecture Video

<http://www.cs.umd.edu/class/fall2021/cmsc132-030X/lectures/Week3/DebuggerExampleCode.zip>

3. Additional outside resource

<http://www.vogella.com/tutorials/EclipseDebugging/article.html>