

Exam 4 - Debugging

Description

During Week 5 (starting Monday 6/27), we will have Exam 4 (the debugging Exam). It will be done via zoom, one-on-one with a TA, and should take around 10 minutes to complete. You will take this exam at a time that you and the TA agree on.

A TA will contact you during Week 4 to schedule a time for the quiz. Please make sure you check your University email account for this email and confirm you got it with a reply to the TA. The TAs will schedule your quiz during Week 5.

At the end of Week 4, I will post the code for the debug exam and some pre-exam time instructions. Follow the instructions so that you can be ready for the exam at the start of Week 5. **If you have any questions about debugging, please ask/post on Piazza during Week 4. Once the code is distributed at the end of Week 4, we will not answer any questions about using the debugger until the exam is over for all students.** As students are taking the exam at different times, I ask that you please do not discuss or post about the contents of the exam until all students have taken it.

To prepare for the exam, 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

<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)**

Live Lecture from 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/summer2022/cmsc132/lectures/Week3/DebuggerExampleCode.zip>

3. Additional outside resource

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