Debugging and Profiling

10 questions

1 point

1.
Debugging is the process of

- writing code that uses memory efficiently
- getting your expectations about code behavior to converge with reality
- writing code that is as fast as possible
- handling errors in a nonstandard manner

1 point

2.
Which of the following functions initiates an interactive debugging environment that allows you to step through code one expression at a time?

- try()
- tryCatch()
- stop()
- browser()

1 point

3.

Which of the following functions allows you to temporarily insert pieces of code into other functions to modify their behavior?

- trace()
- debug()
- browser()
- recover()

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1 point

4.

What does the traceback() function do?

- pauses execution of a function
- evaluates an expression and returns on object of "try-error" if an error occurs
- sets the debugging flag for a function
- returns the state of the function call stack just before an occurred

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1 point

5.

When should the traceback() function be called?

- only while debugging inside a function
- immediately after an error occurs
- immediately after a warning occurs.
- any time after an error occurs

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1 point

6.

What does calling trace("f") for function "f()" do?

- Whenever f() is called, the function call stack is written to a file.
- Whenever f() is called, a message is printed to the console indicating that the function was called.
- It generates a log file containing debugging information.
- Whenever f() is called, it will enter the interactive debugger.

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1 point

7.

What is the microbenchmark package useful for?

- comparing the speed of several functions that do the same thing
- modifying code in other developers' packages
- handling warnings and errors in non-standard ways
- interactively debugging functions

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1 point

8.

What does the RProf() function do?

- re-formats your code to adhere to standards
- analyzes your code for potential bugs
- writes out the function call stack at user-specified intervals of time
- visualizes the time behavior of R code

1 point

9.
What does the profvis() function do?

- prints debugging information to the console
- visualizes code that runs quickly (in less than 10 milliseconds)
- displays profiling information in an interactive visualization in RStudio
- writes a log file of the function call stack

1 point

10.
Which function is better for analyzing fast-running functions: profvis() or microbenchmark()?

- microbenchmark()
- profvis()

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