Tests & Quizzes

Lab 7

Return to Assessment List

Part 1 of 4 / 2.0 Points

Question 1 of 4 2.0 Points

Do you Fully understand the code above? Definitely, you MUST make more effort than just quickly scanning the code.

- ✔ ○ A. Yes
- ✔ ○ B. No

Answer Key: A

Part 2 of 4 / 4.0 Points

Question 2 of 4 4.0 Points

How many stack bytes in hexadecimal does the Fact subroutine need each time it is called? 0x ✖ 28 Bytes.
The minimum stack size in hexadecimal that needed to be able to correctly calculate Fact(10) is 0x ✖ 16 bytes.

Answer Key: 24, 168

Part 3 of 4 / 2.0 Points

Question 3 of 4 2.0 Points

Click to see additional instructions
How many function-calls are performed to calculate Fact(3)? ✔ 3

Answer Key: 3

Part 4 of 4 / 12.0 Points

Question 4 of 4 12.0 Points

In the above program, the SP will be initialized by the value 0x138.
After recursively calling the Fact function three times and the execution reached the CMP instruction:
The address of the recently allocated local variable x in hexadecimal will be 0x ✖
and its value in hexadecimal will be 0x ✖
The address of the recently allocated returning value in hexadecimal will be 0x ✖

Answer Key: CC|000000CC, B|0000000B, E8|000000E8