Q4 (through Trees 1)

⚠ This is a preview of the published version of this quiz

Started: Nov 2 at 9:52am

Quiz Instructions

Question 1	0.1 pts

There may be multiple frames corresponding to the same function on the stack at the same time.

○ True

○ False

Question 2	0.2 pts

Suppose the following runs without error:

```
# code hidden
A.next = B
B.next = A
C.next = B
```

Which of the following refers to the same object as A?

○ C.next

○ A.next.next.next

○ A.next

○ B.next.next.next

○ C.next.next.next

Question 3   0.1 pts

The B class is a c_____ _____ _____ both have an __init__ method. Both __init__ methods are guar_____ _____ _____ a new instance of B is created, regardless of the code in B's _____

○ True

○ False

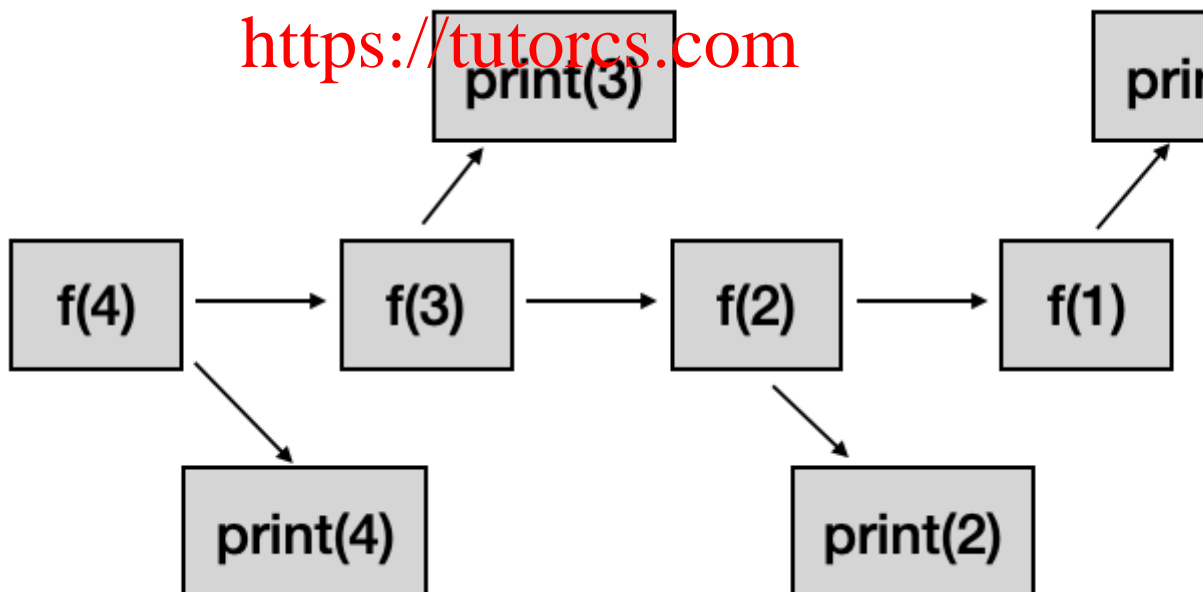**Question 4**   0.2 pts

Consider the following call graph drawn as somebody is tracing through a recursive function call, using the same technique demonstrated in the lecture:

What is the last number printed?

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Question 5   0.1 pts

A directed graph h̶ ̶ ̶ ̶ ̶ ̶ but zero roots (remember that in 320 we define a "root" as any no̶ ̶ ̶ ̶ ̶ ̶nts). What can we guarantee about the graph?

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○ it is NOT a DAG

○ the graph is NOT weakly connected

○ the graph is weakly connected

Assignment Project Exam Help

○ it is a DAG

Email: tutorcs@163.com

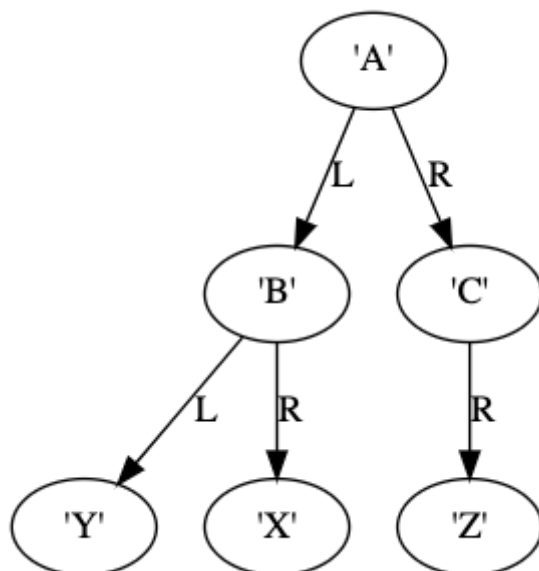**Question 6**   0.1 pts

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The following is not a binary search tree. Which nodes must be deleted to make it one? If there are multiple correct answers, choose the one that involves removing the fewest nodes.

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○ Y

○ A, C, and Z (B would be the new root in the remaining tree)

○ X and Y

○ X, Y, and Z

○ B, X, and Y

Question 7   0.1 pts

In the lab, you completed the following method for the Node class of your linked list:

```
def __len__(self):
    if self.next == None:
        # base case: I'm the only Node!  Length must be 1
        return 1
    else:
        # recursive case: total length is the length of next plus 1
        return ????
```

What should replace the missing code?

○ N

○ N + 1

○ len(self) + 1

○ len(self) - 1

○ len(self.next)

○ len(self.next) + 1

○ len(self.next) - 1

○ len(self)

Question 8   0.1 pts

If the commits in a git repo are nodes and edges connect each commit to the previous commit(s) in history, the resulting graph will always form a tree.

○ True

○ False

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