

Q3 (through Catchup)

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

程序代写代做 CS编程辅导

Started: Nov 2 at 9:52am

Quiz Instructions



Question 1

0.1 pts

Which line of code MAY be considered a single "step"? L is a list.

☐ sum(L[100:])

☐ "hi" in L

☐ sum(L[:100])

☐ sum(L)

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Question 2

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0.1 pts

What will the length of second be equal to after the following runs?

```
with open("story.txt") as f:  
    first = f.read()  
    second = f.read()
```

☐ 0

☐ len(first)

☐ total length of the file

☐ whatever the length of the second line in the file is

**Question 3****0.1 pts**

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In order to use Python's built-in sorting capabilities, you must implement the `__gt__` (greater than) special method



- ☐ True
- ☐ False

**Question 4****0.1 pts**

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Which of the following is the best/fastest?

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- ☐ $O(N)$
- ☐ $O(N^2)$
- ☐ $O(1)$

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**Question 5****0.1 pts**

If $f(N) = 0 + 1 + 2 + \dots + (N - 1)$

Is the following true or false?

$f(N) \in O(N^2)$

- ☐ True
- ☐ False

**Question 6****0.2 pts**

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What error might we get when running the following code?

`obj.callme("A", "B"`



- ☐ TypeError: callme() takes 2 positional arguments but 2 were given
- ☐ TypeError: callme() takes 2 positional arguments but 2 were given
- ☐ TypeError: callme() takes 2 positional arguments but 4 were given
- ☐ TypeError: callme() takes 5 positional arguments but 3 were given

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**Question 7****0.1 pts**

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Your zip file is 2 megabytes (MB) and has a 2x compression ratio. How large are the uncompressed contents?

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- ☐ 4MB
- ☐ 1MB
- ☐ 2MB
- ☐ 0.5MB

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**Question 8****0.2 pts**

In the following image, what C value was chosen for the complexity analysis proof that the algorithm is $O(N)$?

☐ 4

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