Q3 (through Catchup)

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

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)

Question 2	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

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

Which of the following is the best/fastest?

○ O(N)

○ O(N**2)

○ O(1)

Question 5   0.1 pts

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

Is the following true or false?

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

○ True

○ False

Question 6	0.2 pts

What error might we get when running the following code?

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

○ TypeError: callme() takes 4 positional arguments but 2 were given

○ TypeError: callme() takes 3 positional arguments but 2 were given

○ TypeError: callme() takes 2 positional arguments but 4 were given

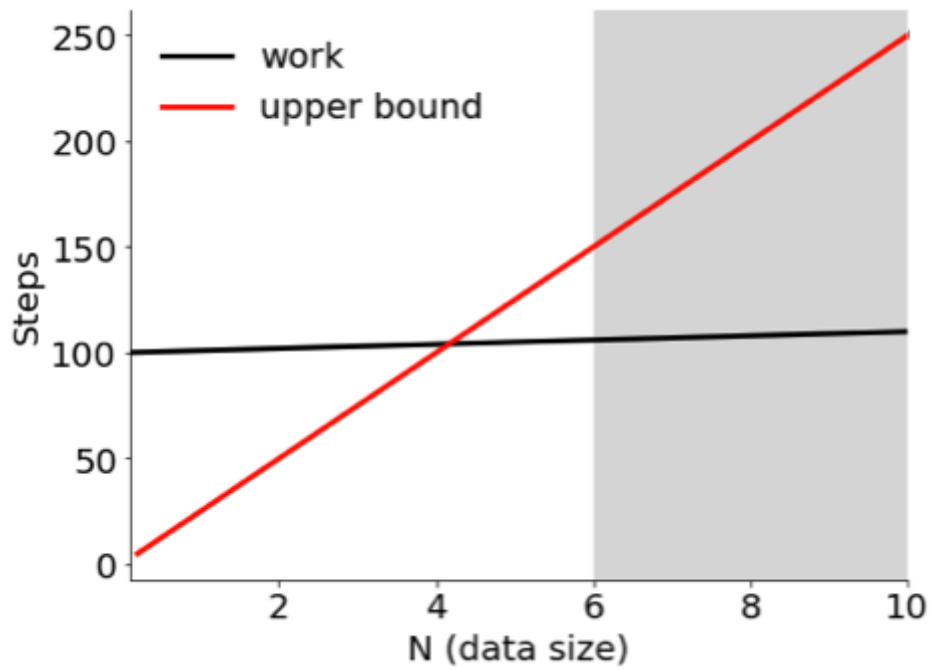○ TypeError: callme() takes 5 positional arguments but 3 were given

Question 7	0.1 pts

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

○ 4MB

○ 1MB

○ 2MB

○ 0.5MB

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

○ 25

○ 1

○ 6

○ 0

○ 100

○ 110

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