Q2 (through OOP 1: classes)

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

Started: Nov 2 at 9:51am

Quiz Instructions

Question 1	0.1 pts

To avoid merge conflicts, it helps if edits on different branches are:

○ to the same file

○ to different files

Question 2	0.1 pts

The HEAD in git CANNOT do the following

○ point to a branch that points to a commit

○ point directly to a commit

○ point to a tag that points to a commit

Question 3	0.1 pts

For the purposes of complexity analysis, is it legitimate to count the following snippet of code, in its entirety, as a single step? Let N be the length of the my_input list.

```
# BEGIN STEP
if len(my_input) < 100:
    print("hello")
else:
    print("hello")
    print("world")
# END STEP?
```

- ○ True

- ○ False

Question 4
0.1 pts

For the purposes of complexity analysis, is it legitimate to count the following snippet of code, in its entirety, as a single step? Let N be the length of the my_input list.

```
# BEGIN STEP
for i in range(len(my_input)):
    print("hello")
# END STEP?
```

- ○ True

- ○ False

Question 5
0.1 pts

For the purposes of complexity analysis, is it legitimate to count the following snippet of code, in its entirety, as a single step. Let N be the length of the my_input list.

```
# BEGIN STEP
for x in my_input[:100]:
    print(len(x))
# END STEP?
```

- ○ True

○ False

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Question 6   0.2 pts

Let N be the lengt[...]owing code is O(N**2). What optimization would make it be O(N)?

```
nums = ... # hid[...]

def avg(values):
    return sum(values) / len(values)

big_nums = []
total = sum(nums)  # line A
count = len(nums)  # line B
for x in nums:
    if x > sum(nums) / len(nums): # line C
        big_nums.append(x) # line D
```

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○ line C: replace "sum(nums) / len(nums)" with "avg(nums)"

○ delete lines A and B

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○ Line C: replace "len(nums)" with "count"

○ line C: replace "sum(nums)" with "total"

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○ line D: replace the line with "print(x)"

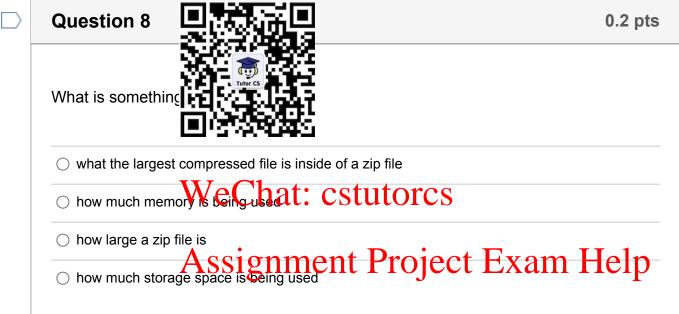
Question 7   0.1 pts

What is TextIOWrapper for?

○ for converting bytes to str

○ for compressing text

○ for converting text to IO

○ for wrapping text with parentheses

○ for compressing bytes

Question 8   0.2 pts

What is something

○ what the largest compressed file is inside of a zip file

○ how much memory is being used

○ how large a zip file is

○ how much storage space is being used

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