

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

Let N be the length of nums. The following code is $O(N^2)$. What optimization would make it be $O(N)$?

```
nums = ... # hidden

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
```

- ☐ line C: replace "sum(nums) / len(nums)" with "avg(nums)"
- ☐ delete lines A and B
- ☐ Line C: replace "len(nums)" with "count"
- ☐ line C: replace "sum(nums)" with "total"
- ☐ 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 htop shows?

☐ 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

Quiz saved at 9:51am

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