

Here are answers to the third WOTO form on February 2, 2023 since we didn't have time to do it in lecture.

1) What is the value of ans after this code executes?

```
"DukeDukeDuke"
```

Explanation: here the loop executes three times since there are three elements in the list. The variable num is never used in the code block for the loop, but that is fine. Still, num is assigned the value 3 the first time through the loop, then 2 the second time through the loop, then 1 the last time through the loop. We just never use num in line 9. That is fine.

Line 9 executes three times, each time adding "Duke" to the end of the string it is building (though really it is building a new string each time!)

2) What is the value of ans after this code executes?

```
"Duke3Duke2Duke1"
```

Here num is used in the code block for the loop

3) What will Python display?

```
False
```

s.split() splits the string into 3 pieces, whereas s.split(';') splits the string into 4 pieces

4) What will Python display?

```
one-fish-two-fish
```

5) Show your code

Be sure to use variables to catch the value returned by split or join

```
phrase = "cats*meow*dogs*bark"
tmp = phrase.split("*")          # tmp is ["cats", "meow", "dogs", "bark"]
a1 = tmp[0:2]                   # a1 is ["cats", "meow"]
a2 = tmp[2:]                    # a2 is ["dogs", "bark"]
b1 = " ".join(a1)               # b1 is "cats meow"
b2 = " ".join(a2)               # b2 is "dogs bark"
c = ":".join([b1, b2])          # c is "cats meow:dogs bark"
```

I used split, join and splicing. In that last step I also had to build the list [b1, b2], which was not stated. So there was one more thing you had to use.

This problem is a bit harder than I would ask on the exam. See the questions on split and join on previous exams.