Quiz 1

To get credit for this quiz, use the Quiz tool at eee.uci.edu to enter your answers, within the Sunday-to-Tuesday quiz period.

You'll notice that some of the questions contain short reminders of what certain Python features mean. We won't always include those, but this week you haven't had much time to learn those meanings.

**Problem 1** (4 points)

What is the value of each of the Python expressions below? (In other words, what would Python display if you printed each expression out?) Use these variables where appropriate:

```python
r = 17
TAX_RATE = 0.1
s = 'downtown'
```

(a) \( r \times \text{TAX\_RATE} \)

(b) `len(s) + 10`  # The function `len()` returns the number of items in a sequence

(c) \((r + 5) \times (r - 7)\)

(d) `s[2]`  # Remember zero-based indexing

(e) `s[-1] + s[1]`  # Negative index numbers count from the end

(f) `s[0:2] * 4`  # A colon in an index indicates a “slice”

(g) `s.count('o')`  # count() returns how many times its argument occurs in the object

(h) `'own' in s`  # The operator “in” checks inclusion
Problem 2 (3 points)

What is the value of each of the Python expressions below? (In other words, what would Python display if you printed each expression out?) Use this variable where appropriate:

$L = [2, 3, 5, 7, 11, 13, 17]$

(a) $L[-1]$

(b) $L[0] + L[1] == L[2]$

(c) $L[-1] - L[-2] <= L[1]$

(d) $15$ in $L$

(e) $L[1:4]$

(f) $len(L + [19])$

Problem 3 (4 points)

For each of the parts of Problem 2—(a–h)—and Problem 3—(a–f)—say what type the value is. Choose from int, float, bool, str, or list.
**Problem 4** (7 points)

What appears in the Python Shell window if you run the following code and the user enters Sam Smith and then 19 at the two points where the code expects input?

```python
print("Hello. What's your name?")
user = input()
print("Hello, ", user, ", how old are you?")
age = int(input())
print("Next year you will be", age + 1, "years old.")
```

Hello. What's your name?
Sam Smith
Hello, Sam Smith, how old are you?
19
Next year you will be 20 years old.

(At this point in the course, you don’t have to be precise about the space after “Sam Smith”, but you should show the two commas printed on that line because there are two commas within the quoted string constants being printed. It’s also okay for this question if you didn’t show the lines that the user typed (“Sam Smith” and “19”).)

**Problem 5** (12 points)

All of these topics are addressed on the syllabus and linked pages.

(a) Why is it important to read each assignment specification more than once?

(b) When is the first midterm scheduled (or, if you don’t remember, where can you find out)?

The first midterm will be in lecture on Tuesday, October 18 (see the “Course structure” section of the syllabus).

(c) Is it ever okay to e-mail the code you’ve written for an ICS 31 lab assignment to another student?

It’s never okay to send code to a student who isn’t your partner on a given lab. Normally, you’ll be working with your partner in person, so the only reason to mail your partner some code is at the end of the lab section, so both partners have a copy of the most up-to-date version of their work. It would also be okay after the course is over.

(d) If you have a question on how your work was scored, whom should you ask first?

Your TA.

(e) What do you do if you haven’t finished the whole lab assignment by the end of the day on Friday, when it’s due?

Turn in whatever you have on the due date via Checkmate. If you’d like to work further, check with your TA on whether a late submission will get any credit (though it might be worth doing it even if there is no credit available).

(f) If you and your partner are running out of time, is it okay to split up the remaining work (you do some, your partner does the rest) and combine that work to submit it?