CS 150 Quiz 4 practice questions   3/4/20

1. True or False?

_____ An `if` statement conditional must evaluate to True or False

_____ While loops always terminate

2. Rewrite the following code to use a while-loop instead of a for-loop.

```
n = int(input("Enter a number: "))
for i in range(n):
    if (i % 2 == 0):
        print(i, "is even")
    else:
        print(i, "is odd")
```

3. Consider the following code

```
k = int(input("Enter a number: "))
while k > 0:
    print(k)
    k = k+1
```

Is this code always guaranteed to terminate? If yes, explain why.

If no, explain why the code might not terminate. Is the code guaranteed to run infinitely? If no, describe a scenario in which the code does terminate.

Solutions to these exercises