Clicker Questions for L06: Control Statements

For 2017-02-02
Q8: Assertions

```python
def test_for_adenine(b, i):
    """(character, int) --> int
    Preconditions: b must be a single character representing a DNA base, i must be a non-negative integer
    Which assertions(s) correctly and most effectively check the preconditions?

A. assert(b in 'acgt')
   assert(len(b == 0))

B. assert (len(b == 0))

C. assert(i >= 1)
   assert(b in 'aAcCgGtT')

D. assert(b in 'acgt' and len(b == 1))
   assert(i >= 1)

E. assert(b in 'aAcCgGtT' and len(b) == 1)
   assert(i >= 0)
```
def sum_upto(n):
    '''(int) -> int
    ;;
    ;;
    sum = 0
    for num in range(1,n+1):
        sum += num
    return sum

Q9: for loops

What is the return value of sum_upto(6)

A. 15
B. 21
C. 28
D. 36
E. 45
Q10: `for` loops

def double_it(x):
    '''(str) -> str
    ...
    ...
    new_string = ""
    for a in x:
        new_string += a*2
    return new_string

What is the return value of `double_it("hi there")`?

A. None of the above
B. "hi therehi there"
C. "hi there hi there"
D. "hhiitthheerree"
E. "hhii tthheerree"
times = int(input("Enter times to cheer: "))
while times != 0:
    print("hip, hip, hurray!")
    times -= 1
print("That's it!")

What does the program output if we input –1?

A. Throws an error
B. Nothing prints
C. hip, hip hurray!
   That’s it!
D. hip, hip hurray!
E. hip, hip hurray!
    hip, hip hurray!
    ... (continues forever)