Name:

Use this quiz to help make sure you understand the videos/reading. **Answer all questions.** Make additional notes as desired. **Not sure of an answer?** Ask your instructor to explain in class and revise as needed then. **Turn this in via the Session 11 Dropbox on our Moodle site.**

Throughout, where you are asked to "circle your choice", you can circle or underline it (whichever you prefer).

Online reading: Overloading the Plus Operator

1. Fill in the blanks:

11 + 22	evaluates to	
'11' + '22'	evaluates to	
'11' + str(3 + 3) + '22' evaluates to		
'11' + 33	evaluates to(this o	one is a trick question)
2. When the code snippet to the right is executed, what gets printed?	<pre>x = 1 y = 2 z = 3 print(x, y, z) print(str(x) + str(y) + str(z)) print(x + y + z)</pre>	Output (fill in the blanks):

 Implement (here, on paper, in the supplied box) the following function, per its specification. In doing so, you should use the concepts of string concatenation and the *str* function (per the online reading and the previous problems).

```
def print_equation(x, y):
"""
Prints an equation for the sum of x and y, with no spaces.
For example:
    -- If x is 65 and y is 11, then this function prints: 65+11=76
    -- If x is 305 and y is 41, then this function prints: 305+41=346
Precondition: The arguments are numbers.
"""
```

Online reading: Accumulating Sequences

4. Implement (here, on paper, in the supplied box) the following function, per its specification.

```
def list_of_numbers(n):
"""
Returns the list [1, 2, 3, 4, ... n]
where n is the given argument. For example:
-- If the argument is 5, this function returns: [1, 2, 3, 4, 5]
-- If the argument is 2, this function returns: [1, 2]
-- If the argument is 0, this function returns: [] (the empty list)
Precondition: The argument is a non-negative integer.
"""
```

5. Implement (here, on paper, in the supplied box) the following function, per its specification.

```
def string_of_numbers(n):
"""
Returns the string '12345678910111213 ...' where the last number
in the string is the given integer. For example:
    -- If the argument is 6, this function returns: '123456'
    -- If the argument is 25, this function returns:
        '1234567891011121314151617181920212232425'
    -- If the argument is 0, this function returns: ''
Precondition: The argument is a non-negative integer.
"""
```

Video: **Patterns for Iterating Through Sequences** [15:21 minutes]

6. Implement (here, on paper, in the supplied box) the following function, per its specification.



7. Implement (here, on paper, in the supplied box) the following function, per its specification.



8. Implement (here, on paper, in the supplied box) the following function, per its specification.

