

Name: _____ **Section:** 1 2 3 4

1 = Mutchler, 1st-2nd periods. **2** = Mutchler, 3rd-4th periods. **3** = Anderson, 7th-8th periods. **4** = Anderson, 9th-10th periods.

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. **Please print two-sided.**

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

Textbook Reading: *Section 6.4 – Using Lists with Functions* (pages 297-303)

1. Write the complete definition (including the header line) of a function **fill** that fills an existing list with a given value (replaces the current value in each list position). For example, **fill(scores, 10)** should replace each element of the list **scores** by the number **10**.

2. Consider the following function that reverses a list. **Answer here:** _____

```
def reverse(values):  
    result = []  
    for k in range (len(values)):  
        result.append(values[len(values) - 1 - k])  
  
    return result
```

If the list **scores** initially contains the numbers 1, 4, and 9 (in that order), what does **scores** contain after the call **reverse(scores)**? (*Hint:* careful, this is a little tricky!)

3. What can you do with a list that you cannot do with a tuple?

4. What does the following Python code print? Answer: _____

```
a = 5  
b = 7  
a, b = (b, a)  
print(a, b)
```

Textbook Reading: Section 6.5 – Adapting Algorithms (pages 303-309)

5. List the authors' four steps for solving a complicated problem (be sure to also read the details! This is an important session).

1.

2.

3.

4.

Textbook Reading: Section 6.6 – Using Physical Objects (pages 310-313)

6. Answer question 31 on page 313. The answer can be found in the textbook, but you should do it yourself. Feel free to compare your answer to the book's answer when you are done. It is possible that your answer is correct but quite different from the book's answer.