

CPSC 110 RAT Chapter 10

Name: _____

1. What is the purpose of a list?
 - a. To do multiple things in one line of code
 - b. To combine multiple pieces of information into one variable
 - c. To keep track of the current and also previous values of a variable
 - d. To keep track of the programs you need to write

2. How could we make a list of the numbers 1 through 5?
 - a. [1, 2, 3, 4, 5]
 - b. [1 ... 5]
 - c. {1, 2, 3, 4, 5}
 - d. {1 ... 5}

3. How would we print the first item of a list called names?
 - a. `print(names.first())`
 - b. `print(names)`
 - c. `print(names[0])`
 - d. `print(names[1])`

4. What sort of loop is most commonly used to loop through a list?
 - a. for loops
 - b. while loops
 - c. if loops
 - d. do loops

5. How can we add the name "Bob" to the end of a list called names?
 - a. `names = names + "Bob"`
 - b. `names.append("Bob")`
 - c. `names.addToTheEnd("Bob")`
 - d. `names = "Bob".add()`

6. How could we insert the name "Bob" into the beginning of a list called names?
 - a. `names = "Bob".add(1)`
 - b. `names.insertFront("Bob")`
 - c. `names = "Bob" + names`
 - d. `names.insert(0, "Bob")`

7. What will the following program print?

```
letters = []
letters.append("A")
letters.insert(0, "B")
letters.append("C")
letters.insert(2, "D")
for letter in letters:
    print(letter, end="")
```

- a. ABCD
- b. BADC
- c. DABC
- d. ACBD

8. What will the following program print?

```
names = ["Alice", "Bob", "Claire", "Derek"]
print(names[2])
```

- a. Claire
- b. Bob
- c. Derek
- d. Nothing, 2 is not a valid index

9. What will the following program print?

```
numbers = [1, 2, 3, 4, 5]
for num in numbers:
    if num < 4:
        print(num, end="")
```

- a. 12345
- b. 321
- c. 123
- d. 54321

10. What will the following program print?

```
values = []
for i in range(5):
    values.append(i * 2)
for val in values:
    print(val, end=" ")
```

- a. 1 2 3 4 5
- b. 2 4 6 8 10
- c. 5 4 3 2 1
- d. 0 2 4 6 8