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## LIST

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### Multiple-Choice Questions

1. The statement that creates the list is
  - a. `superstore = list()`
  - b. `superstore = []`
  - c. `superstore = list([1,2,3])`
  - d. All of the above
2. Suppose `continents = [1,2,3,4,5]`, what is the output of `len(continents)`?
  - a. 5
  - b. 4
  - c. None
  - d. error
3. What is the output of the following code snippet?

```
islands = [111,222,300,411,546]
max(islands)
```

  - a. 300
  - b. 222
  - c. 546
  - d. 111

4. Assume the list `superstore` is `[1,2,3,4,5]`, which of the following is correct syntax for slicing operation?
  - a. `print(superstore[0:])`
  - b. `print(superstore[:2])`
  - c. `print(superstore[:-2])`
  - d. All of these
5. If `zoo = ["lion", "tiger"]`, what will be `zoo * 2`?
  - a. `['lion']`
  - b. `['lion', 'lion', 'tiger', 'tiger']`
  - c. `['lion', 'tiger', 'lion', 'tiger']`
  - d. `['tiger']`
6. To add a new element to a list the statement used is?
  - a. `zoo.add(5)`
  - b. `zoo.append("snake")`
  - c. `zoo.addLast(5)`
  - d. `zoo.addend(4)`
7. To insert the string "snake" to the third position in `zoo`, which of the following statement is used?
  - a. `zoo.insert(3, "snake")`
  - b. `zoo.insert(2, "snake")`
  - c. `zoo.add(3, "snake")`
  - d. `zoo.append(3, "snake")`
8. Consider `laptops = [3, 4, 5, 20, 5, 25, 1, 3]`, what will be the output of `laptops.reverse()`?
  - a. `[3, 4, 5, 20, 5, 25, 1, 3]`
  - b. `[1, 3, 3, 4, 5, 5, 20, 25]`
  - c. `[25, 20, 5, 5, 4, 3, 3, 1]`
  - d. `[3, 1, 25, 5, 20, 5, 4, 3]`
9. Assume `quantity = [3, 4, 5, 20, 5, 25, 1, 3]`, then what will be the items of `quantity` list after `quantity.pop(1)`?
  - a. `[3, 4, 5, 20, 5, 25, 1, 3]`
  - b. `[1, 3, 3, 4, 5, 5, 20, 25]`
  - c. `[3, 5, 20, 5, 25, 1, 3]`
  - d. `[1, 3, 4, 5, 20, 5, 25]`
10. What is the output of the following code snippet?

```
letters = ['a', 'b', 'c', 'd', 'e']
letters[::-2]
```

  - a. `['d', 'c', 'b']`
  - b. `['a', 'c', 'e']`
  - c. `['a', 'b', 'd']`
  - d. `['e', 'c', 'a']`

11. Suppose `list_items` is `[3, 4, 5, 20, 5, 25, 1, 3]`, then what is the result of `list_items.remove(4)`?

- a. `3, 5, 29, 5`
- b. `3, 5, 20, 5, 25, 1, 3`
- c. `5, 20, 1, 3`
- d. `1, 3, 25`

12. Find the output of the following code.

```
matrix= [[1,2,3],[4,5,6]]
v = matrix[0][0]
for row in range(0, len(matrix)):
    for column in range(0, len(matrix[row])):
        if v < matrix[row][column]:
            v = matrix[row][column]
print(v)
```

- a. 3
- b. 5
- c. 6
- d. 33

13. Gauge the output of the following.

```
matrix = [[1, 2, 3, 4],
          [4, 5, 6, 7],
          [8, 9, 10, 11],
          [12, 13, 14, 15]]
```

```
for i in range(0, 4):
    print(matrix[i][1])
```

- a. 1 2 3 4
- b. 4 5 6 7
- c. 1 3 8 12
- d. 2 5 9 13

14. What will be the output of the following?

```
data = [[[1, 2], [3, 4]], [[5, 6], [7, 8]]]
print(data[1][0][0])
```

- a. 1
- b. 2
- c. 4
- d. 5