1. What output is produced by the following code?

**xlist = [1, [1, 2], [1, 2, 3]]**

**print(xlist[1])**

[1, 2]

1. What output is produced by the following code?

**xlist = [1, [1, 2], [1, 2, 3]]**

**print(xlist[1][1])**

2

1. What output is produced by the following code?

**xlist = [1, [1, 2], [1, 2, 3]]**

**print(xlist[1] + [1])**

[1, 2, 1]

1. What output is produced by the following code?

**def sum\_part(xlist, n):**

**sum = 0 for x in xlist[n]:**

**sum = sum + x**

**return sum**

**ylist = [[1, 2], [3, 4], [5, 6], [7, 8]]**

**x = sum\_part(ylist, 2) print(x)**

**11**

1. Assume xlist is a list of lists where the inner lists have two elements. The second element of these inner lists is a numeric value. Which of the following will sum the values of the second element of the nested lists and store the result in sum?

* 1. **sum = 0 for item in xlist:**

**sum = sum + item[1]**

* 1. **sum = 0**

**for one, two in xlist:**

**sum = sum + two**

* 1. **sum = 0**

**for i in range(len(xlist)):**

**sum = sum + xlist[i][1]**

* 1. (d) All of the above.

1. What output is produced by the following code?

**for i in range(3): for j in range(3):**

**print(i \* j, end="")**

1. 123246369
2. 0000012302460369
3. 000012024
4. None of the above.

7. What output is produced by the following code? **s = "abc" for i in range(1, len(s) + 1): sub = "" for j in range(i): sub = s[j] + sub**

**print(sub)**

1. **a**

**ba**

**cba**

1. **a**

**ab**

**abc**

1. **a**

**ab**

1. This code produces an error.

8. What output is produced by the following code? **s = "grasshopper" for i in range(1, len(s), 2):**

**print(s[i], end="")**

1. gasopr
2. gr
3. rshpe
4. rshper

9. What output is produced by the following code?

**x = [7] y = x x[0] = x[0] + 3 y[0] = y[0] - 5**

**print(x, y)**

[5] [5]

10. What output is produced by the following code?

**x = [7] y = x x = [8] print(x, y)**

[8] [7]

11. What output is produced by the following code?

**x = [1, 2, 3, 4] y = x y[2] = 0 z = x[1 : ] x[1] = 9 print(x, y, z)**

[1, 9, 0, 4] [1, 9, 0, 4] [2, 0, 4]

12. What output is produced by the following code? **s = "row" for i in range(len(s)):**

**print(s[ : i])**

1. **r**

**ro**

1. **r**

**ro**

**row**

1. **ro row**
2. None of the above.

13. What output is produced by the following code?

**s = "stab" for i in range(len(s)):**

**print(s[i : 0 : -1])**

1. **s ts ats bats**
2. **t at**

**bat**

1. **s st sta**
2. None of the above.

14. What output is produced by the following code?

**s = "stab" for i in range(len(s)):**

**print(s[i : -5 : -1])**

1. **s**

**ts ats bats**

1. **t at bat**
2. **s st sta**
3. None of the above.

15. What output is produced by the following code?

**s = "stab" for i in range(len(s)):**

**print(s[0 : i : 1])**

(a) **s ts ats bats** (b) **t at bat**

1. **s st sta**
2. None of the above.