

Answers 3

Legend:

Only in Java: ☕

Only in Python: 🐍

In both Java and Python: ☕🐍

1. ☕🐍 Create an array of five strings of your choice.

Possible answers:



```
1 String[] myStrings = {"Alpha", "Beta", "Gamma", "Delta", "Epsilon"};
```



```
1 myStrings = ["Alpha", "Beta", "Gamma", "Delta", "Epsilon"]
```

2. ☕ Create an array of 100 integers with value 0.

```
1 int[] nums = new int[100];
```

3. Given the array `int[] nums = {3, 1, 4, 1, 5, 9};` :

- a) What integer is at index 3?

Answer: 1 (the second 1 in the array)

- b) How many elements are in the array?

Answer: 6

- c) ☕ Write code to print the value at index 3.

```
1 System.out.println(nums[3]);
```

- d) ☕ Write code to print the size of the array.

```
1 System.out.println(nums.length);
```

4. Given the following multidimensional array representing a simplified chess board:


```
1 String[][] board = {
2     // Col 1    Col 2    Col 3
3     {"Knight B", "King B", "Knight B"}, // Row 1
4     {"Pawn B", "Pawn B", "Pawn B"}, // Row 2 ...
5     {"", "", ""},
6     {"Pawn W", "Pawn W", "Pawn W"},
7     {"Knight W", "King W", "Knight W"} // Row 5
8 };
```

- ☕ Write code to get the piece at row 4, column 2.

```
1 String piece = board[3][1];
```

5. Given the following strings:

 `String secretMessage = "asdfghjkl";`

 `secret_message = "asdfghjkl"`


Write code to get the fifth character in each.



```
1 char fifth = secretMessage.charAt(4);
```



```
1 fifth = secret_message[4]
```

6.  Print the following text exactly using **only one print statement** (do not include line numbers).

```
1 Linus's Law:
2 "given enough eyeballs, all bugs are shallow"
3 - Eric S. Raymond
```

```
1 print("Linus\'s Law:\n"given enough eyeballs, all bugs are shallow"\n- Eric S. Raymond")
```

7.  Write a function that has two integer parameters and returns the sum of the two integers.

```
1 private static int sumTwo(int num1, int num2) {
2     return num1 + num2;
3 }
```

8. What is wrong with the following function?

Answer: The return type is `void` meaning that the function should not return anything. However, its definition returns a boolean value.

9. (No correct answer) Do you understand how to use classes and objects?

If so, great! Otherwise, that's okay; it's a complicated topic.