

Array Multiple Choices

1. Which of the following is the correct syntax to declare an array of ten integers?

- a. `int a[10] = new int[10];`
- b. `int[10] a = new int[10];`
- c. `[]int a = [10]int;`
- d. `int a[10];`
- e. `int[] a = new int[10];`

2. Which of the following is the correct syntax to declare an array of the given six integer values?

- a. `int[] a = {17, -3, 42, 5, 9, 28};`
- b. `int a {17, -3, 42, 5, 9, 28};`
- c. `int[] a = new int[6] {17, -3, 42, 5, 9, 28};`
- d. `int[6] a = {17, -3, 42, 5, 9, 28};`
- e. `int[] a = int [17, -3, 42, 5, 9, 28] {6};`

3. Consider the following method:

```
public static int mystery(int[] list) {  
    int x = 0;  
    for (int i = 1; i < list.length; i++) {  
        int y = list[i] - list[0];  
        if (y > x) {  
            x = y;  
        }  
    }  
    return x;  
}
```

What value does the method return when passed each of the following arrays?

- a. {5} 0
- b. {3, 12} 9
- c. {4, 2, 10, 8} 6
- d. {1, 9, 3, 5, 7} 8
- e. {8, 2, 10, 4, 10, 9} 2