

# Computer Science 12 AP

## Array Basics 01

Use the name *list* for the name the integer array in these questions

1. A student uses the line `String[] words = new String[20]` to create an array.

How many index positions does this array contain?

20

What is the lowest index position?

0

What is the highest index position?

19

2. How would you create an array of integers that could store 1000 numbers?

```
int[] nums = new int[1000]
```

3. How would you fill slot 5 and 50 with the numbers 99?

```
nums[5]=99; nums[50]=99;
```

4. How would you set the last slot of the array you created to 123?

```
nums[999]=123 OR nums[nums.length-1] = 123
```

5. How would you check to see if the second value in the array is equal in value to the first value in the array?

```
if (nums[0]==nums[1]) { code }
```

6. How would you set the value of the last index position in the array equal to the value in the first index position?

```
nums[nums.length-1] = nums[0]
```

7. How would you set the value in the first index position to a random number in the range 1-100?

```
nums[0] = (int)(Math.random()*100)+1
```

8. If you don't know the length of an array called *nums*, how can you print out how many values are in the list?

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

9. If you don't know the length of an integer array called *nums*, how could you swap the first and last value in the array?

```
int temp = nums[0]  
nums[0] = nums[ nums.length-1 ]  
nums[ nums.length-1 ] = temp
```