Arrays Test 1

1. What is output by the following code segment?

```
int[] array = new int[3];
array[0] = 10;
array[1] = 20;
array[2] = 30;
System.out.println(array[1]);
```

A) 1
B) 10
C) 20
D) 30

2. What is output by the following code segment?

```
int[] array = {5, 10, 15, 20, 25};
System.out.println(array[2]);
```

A) 2
B) 10
C) 15
D) 20

3. Look at the following code segment.

```
String [] list = /* initialization */;
```

Which of the following can replace /* initialization */ so that the code creates an array that can store up to 10 String objects?

A) String[10]
B) new String[10]
C) list = 10
D) new list(10)

4. Look at the following code segment.

```
int[] nums = new int[5];          // Line1
nums[0] = 47;                     // Line2
nums[5] = 19;                     // Line3
System.out.println(nums[0]);      // Line4
```

Which of the lines above contains a run-time error? A run-time is an error that causes a program to stop execution.

A) Line1
B) Line2
C) Line3
D) Line4

5. What is output by the following code segment?

```
int[] arr = new int[5];
for (int j = 0; j < 5; j++)
{
    arr[j] = j;
}

for (int i = 0; i < 5; i++)
{
    System.out.print(arr[i] + " ");
}
```

A) 0 0 0 0 0
B) 0 1 2 3 4
C) 1 2 3 4 5
D) 5 5 5 5 5

6. What is output by the following code segment?

```
int[] array = new int[5];
array[0] = 5;
array[1] = 10;
array[2] = array[0] + array[1];
System.out.println(array[2]);
```

A) 2
B) 5
C) 10
D) 15

7. What is output by the following code segment?

```
int[] list = {-5, 7, 2, 15, -8, -1, 4};
int count = 0;
for (int j=0; j < list.length; j++)
{
    if (list[j] > 0)
        count++;
}
System.out.println(count);
```

A) 0
B) 3
C) 4
D) 7

8. Look at the following method declaration.

```
public void doSomething(int[] list)
{
    for (int i = 0; i < list.length; i++)
    {
        int num = list[i];
        if (num % 2 == 0)
            System.out.print(num + " ");
    }
}
```

Which of the following best describes what method doSomething does?

A) Prints all the odd numbers in list.
B) Prints all the even numbers in list.
C) Prints all the positive numbers in list.
D) Prints all the negative numbers in list.