

## Questions – Chapter 6 - Operators

1. Assume that  $i = 1$ ,  $j = 2$ ,  $k = 3$  and  $m = 2$ . What does each of the following statements print?

- a. `System.out.println( i == 1 );`
- b. `System.out.println( j == 3 );`
- c. `System.out.println( ( i >= 1 ) && ( j < 4 ) );`
- d. `System.out.println( ( m <= 99 ) & ( k < m ) );`
- e. `System.out.println( ( j >= i ) || ( k == m ) );`
- f. `System.out.println( ( k + m < j ) | ( 3 - j >= k ) );`
- g. `System.out.println( !( k > m ) );`

2. Consider the following code.

```
arrayOfInts[j] > arrayOfInts[j+1]
```

Which operators does the code contain?

3. Consider the following code.

```
int i = 10;  
int n = i++%5;
```

What are the values of  $i$  and  $n$  after the code is executed?

4. Consider the following code.

```
int i = 10;  
int n = ++i%5;
```

What are the values of  $i$  and  $n$  after the code is executed?

5. Explain the following code sample:

```
result = someCondition ? value1 : value2;
```