- What is the output of the following code snippet?

```
int a = 5, b = 10;
int result = a+++ ++b;
printf("%d, %d, %d", result, a, b);
```

a) 15, 6, 11 b) 16, 6, 11 c) 15, 5, 10 d) 16, 5, 11 Answer: b) 16, 6, 11 [1]

- If x = 7, what is the value of x after x--?

a) 6 b) 7 c) 8 d) Undefined Answer: b) 7 (The value of x is decremented after it's used in the expression, if any. The variable x itself becomes 6 after the statement.)

- What is the value of y after the following operations?

```
int i = 10;
int y = --i;
```

a) 9 b) 10 c) 11 d) 8 Answer: a) 9

- Consider int p = 5;. What is the value of p after p++?

a) 5 b) 6 c) 4 d) Undefined Answer: b) 6 What will be the output.

```
int m = 3;
int n = m++ *2;
printf("%d, %d", m, n);
```

a) 3, 6 b) 4, 6 c) 4, 8 d) 3, 8 Answer: b) 4, 6
Left Shift Operator (<<)

- What is the result of 8 << 1?

a) 4 b) 8 c) 16 d) 32 Answer: c) 16

- If x = 5, what is the value of x << 2?

a) 5 b) 10 c) 20 d) 25 Answer: c) 20 The left shift operator effectively performs.
a) Division by 2 b) Multiplication by 2 c) Addition by 2 d) Subtraction by 2 Answer: b) Multiplication by 2

- What is the binary representation of 3 << 2?

a) 0011 b) 1100 c) 0110 d) 1000 Answer: b) 1100 (Binary of 3 is 0011. Shifting left by 2 adds two zeros at the right: 1100)

- What is the output of printf("%d", 1<< 3);?

a) 1 b) 2 c) 4 d) 8 Answer: d) 8
Right Shift Operator (>>)

- What is the result of 16 >> 2?

a) 2 b) 4 c) 8 d) 16 Answer: b) 4

- If y = 20, what is the value of y >> 1?

a) 5 b) 10 c) 40 d) 20 Answer: b) 10 The right shift operator effectively performs.
a) Division by 2 b) Multiplication by 2 c) Addition by 2 d) Subtraction by 2 Answer: a) Division by 2

- What is the binary representation of 12 >> 1?

a) 1100 b) 0110 c) 0011 d) 1000 Answer: b) 0110 (Binary of 12 is 1100. Shifting right by 1 removes the rightmost bit and adds a zero at the left: 0110)

- What will be the output of printf("%d", 7 >> 1);?

a) 7 b) 3 c) 1 d) 0 Answer: b) 3 (Binary of 7 is 0111. Shifting right by 1 results in 0011, which is 3 in decimal.)

AI responses may include mistakes.

[1] https://www.sankalandtech.com/Tutorials/C/operators-mcq-c.html