

Operators in C Language

1. What will be the output of the following code?

```
#include <stdio.h>
int main() {
    int a = 5;
    printf("%d", a++ + ++a);
    return 0;
}
```

- a. 10
- b. 11
- c. 12**
- d. Undefined behavior

2. What will be the output?

```
int a = 10, b = 20;
printf("%d", a > b ? a : b);
```

- a. 10
- b. 20**
- c. 0
- d. 1

3. What is the output?

```
#include <stdio.h>
int main() {
    int x = 10;
    printf("%d", x << 1);
    return 0;
}
```

- a. 5
- b. 10
- c. 20**
- d. 40

4. What does the sizeof operator return?

- a. Size of variable value
- b. Number of bits
- c. Size in bytes**
- d. Address of variable

5. What will be the output?

```
#include <stdio.h>
int main() {
    int a = 3, b = 4;
    printf("%d", a & b);
    return 0;
}
```

- a. 0**
- b. 4
- c. 3
- d. 2

6. What is the result of the expression?

```
int x = 5;
x = x << 1;
printf("%d", x);
```

- a. 5
- b. 6
- c. 10**
- d. 2

7. What is the output?

```
#include <stdio.h>
int main() {
    int a = 5;
    printf("%d", !a);
    return 0;
}
```

}

- a. **0**
- b. 1
- c. 5
- d. Error

8. Output of the following code?

```
int a = 5;  
printf("%d", sizeof(a++));
```

- a. **4**
- b. 5
- c. 6
- d. Compiler Error

9. What is the output?

```
#include <stdio.h>  
int main() {  
    int a = 10;  
    printf("%d", a > 5 && a < 20);  
    return 0;  
}
```

- a. 0
- b. **1**
- c. 10
- d. Error

10. What will be the result?

```
int x = 10;  
x += 5;
```

- a. 10
- b. **5**

- c. 15**
- d. Error

11. What does this code print?

```
int x = 0;  
printf("%d", x && 5);
```

- a. 0**
- b. 1
- c. 5
- d. Error

12. What is the output?

```
#include <stdio.h>  
int main() {  
    printf("%d", 5 | 3);  
    return 0;  
}
```

- a. 7**
- b. 8
- c. 1
- d. 5

13. Output of the following code?

```
int a = 10;  
printf("%d", a == 10);
```

- a. 10
- b. True
- c. 1**
- d. 0

14. What will be the output?

```
#include <stdio.h>
int main() {
    int a = 5, b = 2;
    printf("%d", a / b);
    return 0;
}
```

- a. 2.5
- b. 2**
- c. 3
- d. Error

15. What is the output?

```
int i = 5;
printf("%d", i++ * i++);
```

- a. 30**
- b. 25
- c. 36
- d. Undefined behavior

16. What will be printed?

```
#include <stdio.h>
int main() {
    int a = 1;
    printf("%d", a++ + a++);
    return 0;
}
```

- a. 3**
- b. 4
- c. 5
- d. Undefined behavior

17. Output of the code?

```
int x = 4;
printf("%d", x >> 1);
```

- a. 1
- b. 2**
- c. 4
- d. 8

18. What is the output?

```
#include <stdio.h>
int main() {
    int x = 0;
    printf("%d", x && printf("Hello"));
    return 0;
}
```

- a. Hello
- b. 0**
- c. 1
- d. Error

19. What will be the output?

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

- a. 0
- b. 1**
- c. 5
- d. 10

20. What will be the output?

```
#include <stdio.h>
int main() {
    int a = 5;
    printf("%d", ~a);
    return 0;
}
```

- a. 5
- b. -6**
- c. -5
- d. 6