

① What is the output of the following code?

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

A. 4

B. 5

C. 6

D. Error

② What does the expression `a++` do?

A. Increments `a` Before using it

B. Increments `a` After using it

C. Decrements `a` Before using it

D. Causes compilation error.

3) What is the output?

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

A. 10

B. 9

C. 11

D. Error.

④ What is the output?

C

```
int a = 3;
```

```
int b = ++a + a++;
```

```
printf("%d", b);
```

A. 7

B. 8

C. 9

D. Undefined.

⑤ Which operator has higher precedence?

A. ++

B. --

C. \*

D. Both ++ and -- equally.

⑥ What is the output?

C

```
int a = 5;
```

```
if (++a == 6)
```

```
    printf("True");
```

```
else
```

```
    printf("False");
```

A. True

B. false

C. Error

D. Undefined.

⑦ What is the output?

C

```
int a = 7;
```

```
if (a == 7)
```

```
    printf("A");
```

```
else
```

```
    printf("B");
```

A. A

B. B

C. 7

D. Error.

⑧ What is the result of:

C

```
int a = 2;
```

```
int b = a++ * ++a;
```

A. 6

B. 8

C. 4

D. undefined behavior

⑨ choose the correct statement.

A. ++a increments before usage.

B. a++ increments after usage

C. Both A and B

D. None

10) What is the output?

C

```
int x = 5;
```

```
if (x++ > 5)
```

```
    printf("Hi");
```

```
else
```

```
    printf("Bye");
```

A. Hi

B. Bye

C. Error

D. Undefined.

11) Output?

C

```
int x = 1;
```

```
if (++x && x--)
```

```
    printf("%d", x);
```

```
else
```

```
    printf("0");
```

A. 1

B. 2

C. 0

D. Undefined.

12. Output ?

```
c
int x = 4;
if (--x || ++x)
    printf("Yes");
else
    printf("No");
```

- A. Yes
- B. No
- C. Error
- D. Undefined

13. What is the output ?

```
c
int x = 3;
int y = x++ + ++x;
printf("%d", y);
```

- A. 7
- B. 8
- C. 9
- D. Undefined.

14. Output ?

```
c
int x = 0;
if (x-- && x++)
    printf("Hello");
else
    printf("World");
```

A. Hello

B. World

C. Error

D. Undefined.

15) Output?

C

```
int a=5;
```

```
int b=10;
```

```
if (a++ < --b)
```

```
    printf("A");
```

```
else
```

```
    printf("B");
```

A. A

B. B

C. Error

D. Undefined

16) What is the output?

C

```
int a = 1;
```

```
int b = 2;
```

```
if (++a == b--)
```

```
    printf("Equal");
```

```
else
```

```
    printf("Not Equal");
```

- A. Equal
- B. Not Equal
- C. Error
- D. Undefined.

17) Output of the code :

```
c
int a=5;
if (a++ == ++a)
    printf("Yes");
else
    printf("NO");
```

- A. Yes
- B. NO
- C. Error
- D. Undefined behaviour.

18. The Expression --a does :

- A. Decrements a after usage
- B. Decrements a before usage
- C. increments before usage
- D. Causes error.

19) Output ?

```
c
int a = 4;
int b = 4;
if (a++ && --b)
    printf("%d", a+b);
else
    printf("0");
```

A. 7

B. 8

C. 9

D. 0.

20) Choose the correct statement about increment operators

A. They cannot be used inside conditional statements

B. They can be used inside conditions.

C. They cause errors always

D. They are slower than arithmetic operators.



Q) Program to find maximum between three using Nested if.

```
#include <stdio.h>
```

```
int main() {
```

```
    int x, y, z;
```

```
    printf("Enter three numbers:");
```

```
    scanf("%d %d %d", &x, &y, &z);
```

```
    if (x >= y) {           // first comparison
```

```
        if (x >= z)
```

```
            printf("Maximum = %d", x);
```

```
        else
```

```
            printf("Maximum = %d", z);
```

```
    }
```

```
    else {
```

```
        // if y is Greater than x.
```

```
        if (y >= z)
```

```
            printf("Maximum = %d", y);
```

```
        else
```

```
            printf("Maximum = %d", z);
```

```
    }
```

```
    return 0;
```

```
}
```