
TOPIC: OPERATORS AND EXPRESSIONS

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

(i) `int ch = 20`

(ii) `int ch = 20`

`cout<<++ch << "\n"<< ch<< "\n" ; cout<< ch+1<< "\n"<< ch<< "\n" ;`

2. What will be the result of the following two expressions if `i = 15` initially?

(i) `++i <= 15` (ii) `i++ <= 15`

3. Write the corresponding C++ expressions for the following mathematical expressions.

(i) $e^x - x$ (ii) $(R+S)^4$ (iii) $2-4y*(p+q)^2$ (iv) $(A+B)^2 + (C+D)^4$

4. Given the value of `a`, `b` and `c` evaluate the following expression

`a = 10, b = 5, c = 11`

`(a >= b) || (!c == b) && (c < a)`

5. Determine the output of the following code segment:

```
a = 2;
b = ++a
cout<< a;
cout<< b;
cout<< a++;
cout<< ++a;
```

6. What is the difference between `num = 10` and `num= =10` ?

7. What is the output of the following statement?

```
Int i = 20
cout<< i << i++ << ++i ;
```