

Using multiple increment/decrement operators in one single expression

```
#include <iostream>
#include <iomanip>
using namespace std;
int main() {
    int x = 6;
    int ans = 0;
    ans = ++x + ++x + ++x;
    cout << ans;
    return 0;
}
```

Output: 27

How this statement will be evaluated?

`ans = ++x + ++x + ++x;`

Keeping in mind the precedence of operators, unary operators (++ and --) have highest precedence. Thus, they will be evaluated first in any expression, then + will be evaluated. The other rule of precedence says that if we have same operator multiple times in a single expression, then it will be evaluated starting from left side and moving towards right.

Thus, three ++ operators will be evaluated one after the other, starting from the left side

`ans = ++x + ++x + ++x;`

7 8 9

At this point, the variable x got the final value “9”. The equation then looks like:

`ans = x + x + x; //final value of x will be considered`
9 + 9 + 9

`ans= 27`