

A program to illustrate the precedence and associativity as well as increment and decrement operators.

**Example 1:**

```
#include<iostream.h>
void main()
{
    int i = 3, m;
    m = (i*10) + ++i;
    cout<<m;
}
```

We know that parentheses have highest Precedence.so in this example result must be 34, but result is **44**.

**Example 2:**

```
#include<iostream.h>
void main()
{
    int i = 3, m;
    m = (i*10) + i++;
    cout<<m;
}
```

Output: **33**

Reasons:

**The operator ++ when pre incremented / decremented has R->L associativity.**

**The operator ++ when post incremented / decremented has L->R associativity.**

And in the Example2 the precedence is given to parentheses ( $i*10$ ) which will evaluate to 30 and added with i which evaluates to 33...then i will be incremented to 4.