

Increment and Decrement Operators, First Loops

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1 Increment and Decrement Operators

Copy and paste this code into a new Visual Studio project and execute it. Study the output carefully to make sure you understand the mechanism of the increment and decrement operators.

```
int a = 0, b = 0;
Console.WriteLine("Before changing their values:");
Console.WriteLine($"{a}\n\tb is {b}\n-----");
Console.WriteLine("Incrementing, using postfix and prefix operators:");
a++;
++b;
Console.WriteLine($"{a}\n\tb is {b}\n-----");
Console.WriteLine("Decrementing, using postfix and prefix operators:");
a--;
--b;
Console.WriteLine($"{a}\n\tb is {b}\n-----");
Console.WriteLine("When combining decrementing and incrementing operators"
    + " with other operations,\nit makes a difference whether you use"
    + " postfix or prefix operators!");
int c = a--, d = ++b;
Console.WriteLine($"{a} (the decrementing took place as expected)\n"
    + $"{b} (the incrementing took place as expected)\n"
    + $"{c} (c got its value *before* a was decremented)\n"
    + $"{d} (d got its value *after* b was incremented)\n"
    + $"-----");
```

2 First While Loops

1. Write a **while** loop that displays the integers between 1 and 100 on the screen, with a space between them.
2. Write a **while** loop that displays the * (asterisk) character 100 times on the screen.

3. Modify your previous loop, so that a new line character is displayed on the screen every time 10 asterisks have been displayed on the screen. That is, your program should display on the screen:
