C# - DO...WHILE LOOP

Unlike **for** and **while** loops, which test the loop condition at the start of the loop, the **do...while** loop checks its condition at the end of the loop.

A **do...while** loop is similar to a while loop, except that a do...while loop is guaranteed to execute at least one time.
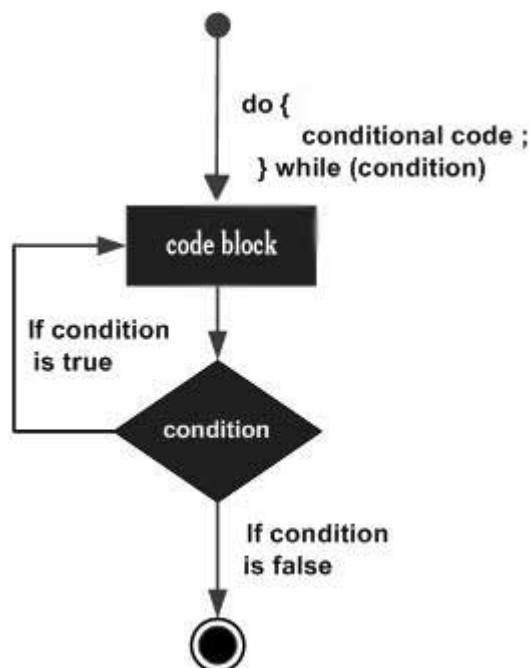
Syntax

The syntax of a **do...while** loop in C# is:

```
do
{
    statement(s);

}while( condition );
```

Notice that the conditional expression appears at the end of the loop, so the statements in the loop execute once before the condition is tested.

If the condition is true, the flow of control jumps back up to do, and the statements in the loop execute again. This process repeats until the given condition becomes false.

Flow Diagram

Example

```
using System;
namespace Loops
{
    class Program
    {
        static void Main(string[] args)
        {
            /* local variable definition */
            int a = 10;

            /* do loop execution */
            do
```

```
        {
            Console.WriteLine("value of a: {0}", a);
            a = a + 1;
        }
        while (a < 20);
        Console.ReadLine();
    }
  }
}
```

When the above code is compiled and executed, it produces the following result:

```
value of a: 10
value of a: 11
value of a: 12
value of a: 13
value of a: 14
value of a: 15
value of a: 16
value of a: 17
value of a: 18
value of a: 19
```

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