

DO...WHILE LOOP IN C

http://www.tutorialspoint.com/cprogramming/c_do_while_loop.htm

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Unlike **for** and **while** loops, which test the loop condition at the top of the loop, the **do...while** loop in C programming language checks its condition at the bottom 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:

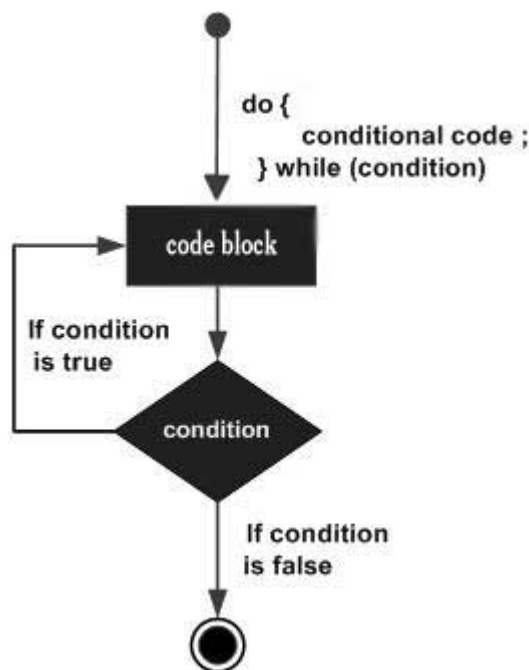
The syntax of a **do...while** loop in C programming language is:

```
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:

```
#include <stdio.h>

int main ()
{
    /* local variable definition */
    int a = 10;

    /* do loop execution */
    do
    {
        printf("value of a: %d\n", a);
        a = a + 1;
    }while( a < 20 );
```

```
    return 0;  
}
```

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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