

C - NESTED IF STATEMENTS

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

Copyright © tutorialspoint.com

It is always legal in C programming to **nest** if-else statements, which means you can use one if or else if statement inside another if or else if statements.

Syntax:

The syntax for a **nested if** statement is as follows:

```
if( boolean_expression 1)
{
    /* Executes when the boolean expression 1 is true */
    if(boolean_expression 2)
    {
        /* Executes when the boolean expression 2 is true */
    }
}
```

You can nest **else if...else** in the similar way as you have nested *if* statement.

Example:

```
#include <stdio.h>

int main ()
{
    /* local variable definition */
    int a = 100;
    int b = 200;

    /* check the boolean condition */
    if( a == 100 )
    {
        /* if condition is true then check the following */
        if( b == 200 )
        {
            /* if condition is true then print the following */
            printf("Value of a is 100 and b is 200\n" );
        }
    }
    printf("Exact value of a is : %d\n", a );
    printf("Exact value of b is : %d\n", b );

    return 0;
}
```

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

```
Value of a is 100 and b is 200
Exact value of a is : 100
Exact value of b is : 200
```

Loading [MathJax]/jax/output/HTML-CSS/fonts/TeX/fontdata.js