

C - nested if statements

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 statement(s).

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 statements.

Example

```
#include <stdio.h>
```

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```
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
```