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Introduction to Nested if Statement in C

Nested if statement in C is the nesting of if statement within another if statement and n
of if statement with an else statement. Once an else statement gets failed there are times when the next execution of statement wants to return a true statement, there we need nesting of if

```
if ( check 1st condition)
{
if ( check 2nd condition)
{
Verify True statements of 2nd condition;
}
else
{
Verify False statements of 2nd condition;
}
else
{
Verify False statements of 1st condition;
}
```

Explanation:

How the flow of the syntax of the nested if statement works is like if statement will che the first condition then if it gets satisfied with a true value then it will check for the 2nd condition. Again, if the 2nd condition gets satisfied and the value comes out to be true that set

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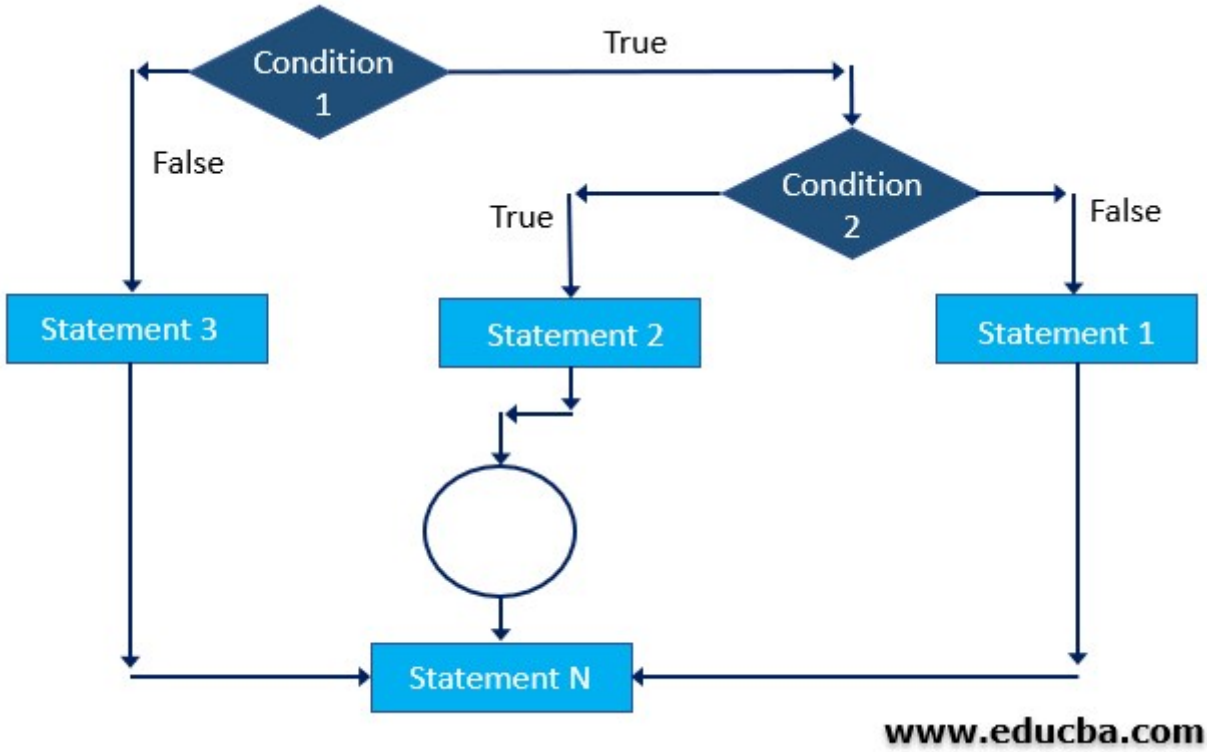

The flow of execution goes in a way that condition 1 will get tested if it becomes false then, statement 3 will get executed. If the condition 1 gets satisfied i.e. if it gets true then it will go for the next execution of test condition 2. In case the statement with condition 2 gets false or unsatisfied then it will execute else with statement 2 in consideration.

Working of Nested if Statement in C

An Example will be good to illustrate the working concept of Nested if statement. Let's example and understand. Every person is eligible for working once he or she is above 18 years otherwise not eligible. Moreover, any organization will offer a job if he or she is above 18 years

and other statements can go for a false condition but then it presumes that it has to become true and satisfactory for the other statement with the second condition then there will be need of Nested if statement. One very special characteristic to describe such type of uncertain logic behind this is helpful with Nested If statement.

Control statement like if can be easily nested within another nested if statement besides the fact that if outer statement gets failed then the compiler will skip the entire block irrespective of

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Example #1

Program for analysis of people of certain age groups who are eligible for getting a suitable job if their condition and norms get satisfied using nested if statement.

Code:

```
#include <stdio.h>
int main()
{
int a;
printf(" Enter your current Age Here:\n");
scanf("%d",&a);
if ( a < 18 )
{
printf("Consider as minor \n");
printf("Not fit for Working");
}
else
{
if (a >= 18 && a <= 50 )
{
printf("He/She is successfully eligible for Working \n");
printf("Fill all the details and apply for it\n");
}
else
```

```
}
return 0;
}
```

Output:

```
Enter your current Age Here:
25
He/She is successfully eligible for Working
Fill all the details and apply for it
```

Example #2

Program to find which number is greater among the considered number and then how the execution happens with the help of nested if statement if the flow gets successful then it is counted as normal flow.

Code:

```
#include <stdio.h>
int main()
{
int x = 65, y = 35, z = 2;
if (x > y)
{

if (x > z)
{
printf("x is larger than y and z ");
```

```
}
```

Output:

```
x is larger than y and z
 flow for the program is proper
```

Example #3

Program to find the greatest digit from three digits by making certain permutation and combination with nested if and then getting an output with the three largest among all.

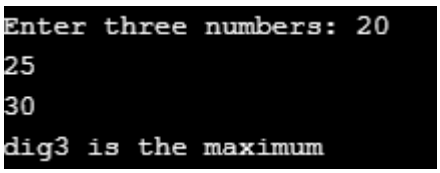
Code:

```
#include <stdio.h>
int main()
{
int dig1, dig2, dig3;
printf("Enter three numbers: ");
scanf("%d%d%d", &dig1, &dig2, &dig3);
if(dig1 > dig2)
{
if(dig1 > dig3)
{
printf("dig1 is the maximum");

}
else
{
```

```
{
if(dig2 > dig3)
{
printf("dig2 is the maximum");
}
else
{
printf("dig3 is the maximum");
}
}
return 0;
}
```

Output:



Example #4

Program to take certain numbers as input from the user and then calculating from those numbers the largest and then giving the result whether or not it is greater or equal after manipulation with nested if statement.

Code:

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

```
scanf( %d , &g1);
printf("Get value for g2:");
scanf("%d",&g2);
if (g1 != g2)
{
printf("g1 is not equal to g2\n");
if (g1 > g2)
{
printf("g1 is larger than g2\n");
}
else
{
printf("g2 is larger than g1\n");
}
}
else
{
printf("g1 is equal to g2\n");
}
return 0;
}
```

Output:


```
Get value for g1:25
Get value for g2:63
g1 is not equal to g2
```

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Conclusion

A conclusion can be easily made that nesting if statement to perform is fine but when it comes to deal with the false statement once it enters the else part and control needs to be executed and set to a true value then nested if it comes as a savior.

Recommended Articles

This is a guide to Nested if Statement in C. Here we discuss the Introduction to Nested if Statement in C and its Examples along with its Code Implementation. You can also go through our other suggested articles to learn more –

1. Reverse String in C (https://www.educba.com/reverse-string-in-c/)
2. Nested if Statements in Java (https://www.educba.com/nested-if-statements-in-java/)
3. Nested if in JavaScript (https://www.educba.com/nested-if-in-javascript/)
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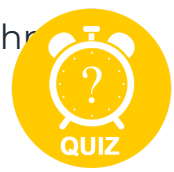

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