



C Programming

Tutorial for Beginners

LECTURE - 11





The 'Nested if' Statement

An 'if' statement within another if statement is called "**nested if statement**".
The if statement that contain another if statement is called **outer if statement**.
The if statement used inside another if statement is called **inner if statement**.

1. The nested if statement is used when multiple conditions have to check.
2. Nesting can be up to any level.
3. However it increase the complexity of the logic of the program.



'Nested if' Statement – Syntax & Working

```
if(condition-1)
{
    if(condition-2)
    {
        Block-1
    }
    else
    {
        Block-2
    }
}
else
{
    Block-3
}
```

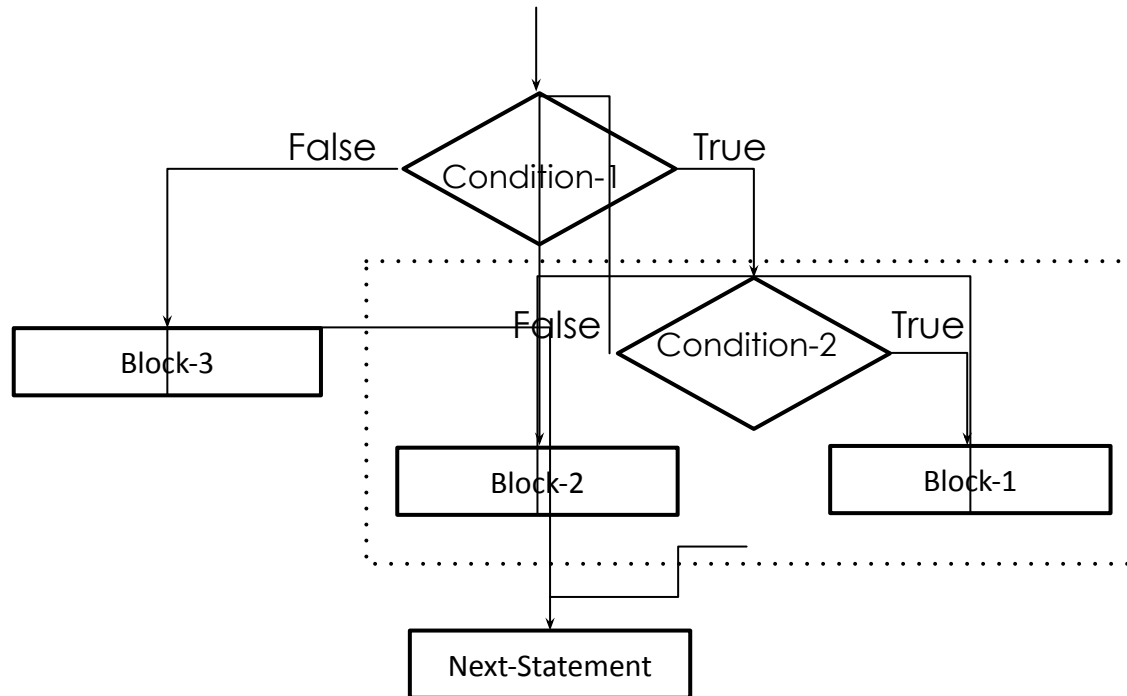
1. In this syntax, the if statement that has **condition-1** contains another if statement that has **condition-2**.
2. The **Block-1** represents the statement of inner if statement while **Block-2** represents the statements of its else part.
3. The **Block-3** represents the statements of else part of outer if statement.



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Nested If Statement - Flowchart





C Program Examples

1. Write C Program that inputs three numbers and display **largest number** using nested-if statement.
2. Write C Program that inputs three numbers and display whether all **numbers are equal or not** using nested-if statement.

In this Tutorial, we are using **Dev C++ 5.7.1** for coding

