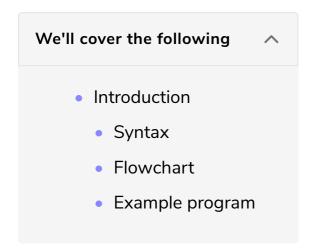
## else-if Statement

In this lesson, you will learn about the else-if statement in C++.



## Introduction #

Suppose you want to buy a present for your friend's birthday. Following are the costs of things you can buy for them:

Wrist-watch: \$20

Comic book: \$10

Chocolate: \$5

Pen: \$0



Based on the available money, we have multiple choices to buy a present. How can we translate this example into a C++ program?

In C++, we can use the **else-if** statement to check multiple conditions in a program.

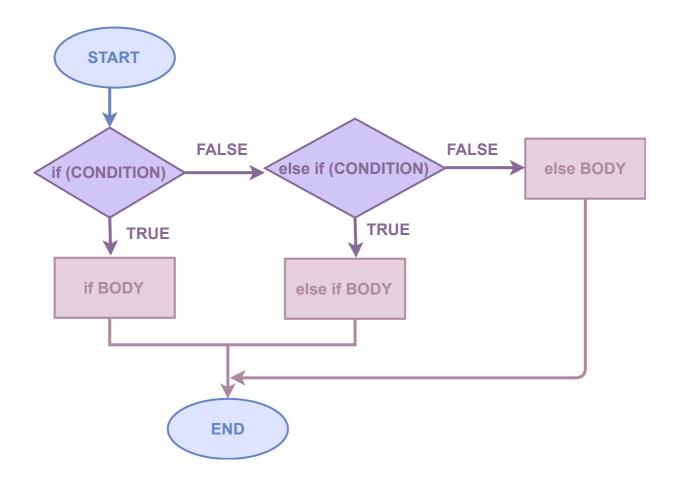
# Syntax #

The basic syntax for the else-if statement is given below:

```
Keyword The return type of condition is boolean
 if (condition) {
  statement 1;
  statement 2;
                              if body
  statement N;
  Keyword The return type of condition is boolean
  else if (condition) {
  statement 1;
  statement 2;
                              else-if body
  statement N;
 Keyword
  else {
  statement 1;
  statement 2;
                              else body
  statement N;
```

#### Flowchart #

The flow chart given below explains the working of the else-if statement:



#### In the figure above:

- The compiler checks the condition in the if statement.
- If the condition returns 1, the compiler executes the if block.
- If the condition evaluates to false, the compiler checks the condition in the else-if statement.
- If the condition in the else-if statement returns 1, the compiler executes the else-if block.
- If it also evaluates to false, the compiler executes the else block.

### Example program #

Let's convert the example given above into a C++ program.

Run the code below and see how the else-if statement works!

```
#include <iostream>
using namespace std;
int main() {
```







[]

Line No. 7: Sets the value of money to 6.

**Line No. 9**: Checks if the value of money is greater than or equal to 20. The value of money is less than 20; therefore, the condition in the if statement returns 0.

**Line No. 10**: Prints You can gift a watch in the output if the condition in **Line No.** 9 evaluates to true

**Line No. 13**: Checks if the value of money is greater than or equal to 10. The value of money is less than 10; therefore, a condition in the else-if statement returns 0.

**Line No. 14**: Prints You can gift a comic book in the output if the condition in **Line No. 13** evaluates to true

**Line No. 16**: Checks if the value of money is greater than or equal to **5**. The value of money is greater than 5; therefore, a condition in the **else-if** statement returns **1** 

**Line No. 17**: Prints You can gift a chocolate in output if the condition in **Line No. 16** evaluates to true.

**Line No. 20** If all the above conditions evaluate to false, else block is executed.

**Line No. 21**: Prints You can gift a pen to the console if all the other conditions

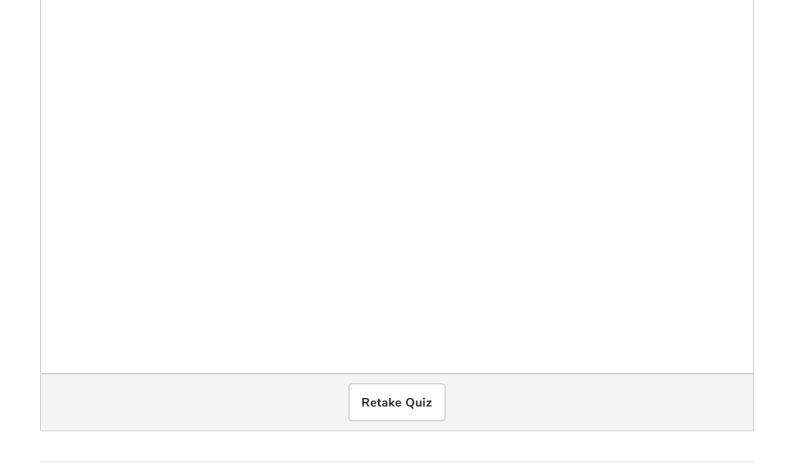
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If number = 85, then what is the output of the following code?

```
int number;

if (number > 85) {
   cout << "Hey! I am greater than 85" << endl;
} else if (number == 85) {
   cout << "Hey! I am equal to 85" << endl;
} else {
   cout << "Hey! I am less than 85" << endl;
}
cout << "number = " << number;</pre>
```



Let's discuss the switch statement in the upcoming lesson.

See you there!