

# RED & WHITE<sup>®</sup>

Multimedia Education

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# WELCOME, PROGRAMMERS



01.

What is Control Structure?

WHAT IS

# CONTROL STRUCTURE ?



# CONTROL STRUCTURE

A control structure is a **block of code** that **manages the flow of execution in a program**.

Control structures dictate the order in which statements are executed based on certain conditions.

# TYPES OF CONTROL STRUCTURE

## Types of Control Structure

1. **Sequential Structure:** The default structure where statements are executed one after the other in sequence.
2. **Selection Structure (Conditional Statements):** Allows the program to make decisions and execute different blocks of code based on specified conditions.
3. **Repetition Structure (Loops):** Allows the execution of a block of code repeatedly as long as a specified condition is true.



# SEQUENTIAL STRUCTURE

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The default structure where **statements are executed one after the other in sequence.**

```
main()
{
    // Statement 1
    // Statement 2
    // Statement 3
}
```



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# SELECTION STRUCTURE (CONDITIONAL STATEMENTS)

# SELECTION STRUCTURE (CONDITIONAL STATEMENTS)

Allows the program to **make decisions** and **execute different blocks of code** based on specified conditions.

- if statement
- if else statement
- ladder statement
- nested statements
- ternary statement
- switch case







03

# REPETITION STRUCTURE (LOOPS)

# REPETITION STRUCTURE (LOOPS)

Allows the **execution of a block of code repeatedly** as long as a specified **condition is true**.

1. Entry Control Loop
  - while loop
  - for loop
2. Exit Control Loop
  - do while loop



Let's see **Conditional Statements** in detail...

# IF STATEMENT

```
if (condition)
{
    // Code to be executed if the condition is true
}
```



# IF ELSE STATEMENT

```
if (condition)
{
    // Code to be executed if the condition is true
}
else
{
    // Code to be executed if the condition is false
}
```



# LADDER STATEMENT

```
if (condition 1)
{
    // Code to be executed if condition 1 is true
}
else if (condition 2)
{
    // Code to be executed if condition 2 is true
}
else if (condition 3)
{
    // Code to be executed if condition 3 is true
}
else
{
    // Code to be executed if none of the conditions is true
}
```





# LANGUAGE

Let's start now...

