

Loops in C & C++

Talk to a Teacher

<http://spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

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Learning Objectives



Learning Objectives

- ▶ for loop



Learning Objectives

- ▶ for loop
- ▶ while loop



Learning Objectives

- ▶ for loop
- ▶ while loop
- ▶ do...while loop



Learning Objectives

- ▶ for loop
- ▶ while loop
- ▶ do...while loop
- ▶ Through examples



Learning Objectives

- ▶ for loop
- ▶ while loop
- ▶ do...while loop
- ▶ Through examples
- ▶ Some common errors and their solutions



System Requirements



System Requirements

- ▶ Ubuntu Operating System version 11.04



System Requirements

- ▶ Ubuntu Operating System version 11.04
- ▶ gcc and g++ Compiler version 4.6.1 on Ubuntu



Introduction



Introduction

- ▶ Loops are used to execute a group of instructions repeatedly



Types of loops



Types of loops

- ▶ while loop



Types of loops

- ▶ while loop
- ▶ do...while loop



Types of loops

- ▶ while loop
- ▶ do...while loop
- ▶ for loop



while loop



while loop

```
► while (condition)
{
    statement block
}
```



do...while loop



do...while loop

```
► do  
  {  
    statement block  
  }  
  while (condition);
```



Summary



Summary

- ▶ while loop
- ▶ eg. `while(x <= 10);`
- ▶ do...while loop
- ▶ eg. `do`
 `{`
 `}`
 `while(x <= 10);`



Assignment



Assignment

- ▶ Write a program to print the following using for loop
- ▶ 0 1 2 3 4 5 6 7 8 9
- ▶ **Hint:** Syntax
- ▶ for(var initialization; condition; var incre-decre)
{
body
}



About the Spoken Tutorial Project

- ▶ Watch the video available at http://spoken-tutorial.org/What_is_a_Spoken_Tutorial
- ▶ It summarises the Spoken Tutorial project
- ▶ If you do not have good bandwidth, you can download and watch it



Spoken Tutorial Workshops

The Spoken Tutorial Project Team

- ▶ Conducts workshops using spoken tutorials
- ▶ Gives certificates to those who pass an online test
- ▶ For more details, please write to contact@spoken-tutorial.org



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- ▶ More information on this Mission is available at:

<http://spoken-tutorial.org/NMEICT-Intro>

