

# Loops in C & C++

Talk to a Teacher

<http://spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

Dhawal Goyal  
IIT Bombay

21 June 2012



# Learning Objectives



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- ▶ for loop



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- ▶ for loop
- ▶ while loop



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- ▶ 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



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- ▶ Ubuntu Operating System version 11.04



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



# Introduction



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- ▶ 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](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](mailto:contact@spoken-tutorial.org)



# Acknowledgements

- ▶ Spoken Tutorial Project is a part of the Talk to a Teacher project
- ▶ It is supported by the National Mission on Education through ICT, MHRD, Government of India
- ▶ More information on this Mission is available at:

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

