

Logical Operators 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



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► Logical Operators



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- ▶ Logical AND



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 - ▶ eg. `expression1 && expression2`



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- ▶ Logical AND
 - ▶ eg. `expression1 && expression2`
- ▶ Logical OR
 - ▶ eg. `expression1 || expression2`
- ▶ Logical NOT
 - ▶ eg. `!(expression1)`



System Requirements



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- ▶ Ubuntu 11.10 as the operating system.



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- ▶ gcc and g++ Compiler version 4.6.1 on Ubuntu.



Introduction



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 - ▶ Non zero = True



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Introduction

- ▶ In C and C++, true is any value other than 0
 - ▶ Non zero = True
 - ▶ Zero = False
- ▶ Expression using logical operators return 1 for true and 0 for false



Summary

- ▶ `&&` Logical AND
eg. `((a > b) && (a > c))`



Summary

- ▶ **&& Logical AND**

eg. $((a > b) \&\& (a > c))$

- ▶ **|| Logical OR**

eg. $(a == 0 \ || \ b == 0 \ || \ c == 0)$



Assignment

- ▶ Write a program that takes two numbers as input from the user



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- ▶ Check whether the two numbers are equal or not using NOT operator



Assignment

- ▶ Write a program that takes two numbers as input from the user
- ▶ Check whether the two numbers are equal or not using NOT operator
- ▶ Hint: $(a \neq b)$



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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- ▶ 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>

