GSET - Programming with Mr. Hill

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Module 2 - Operators and Expressions



Module 2 - Operators and Expressions

- Operators in C++
- Arithmetic Operators
- Operator Precedence
- What is an Expression?
- Tutorial 2 Quadratic Equation Solution

Operators in C++

There are many different operators used in computer programming.

Category	Operators	Example
Assignment	=	
Arithmetic	+ - * / % ^	
Relational	== != > < >= <=	
Logical	! &&	
Bitwise	& ^ ~ << >>	

See the link below for a complete list of C++ operators.

Operators in C++
Arithmetic Operators
Operator Precedence
What is an Expression?
Tutorial 2 - Quadratic Equation - Solution

Operators in C++

There are more. What else could there be?

Arithmetic Operators

Operator	Description	Example
+	Addition	
_	Subtraction	
*	Multiplication	
/	Division	
%	Modulo	

Arithmetic Operators

Which one of these is not like the other?

Why?

Operator Precedence

From greatest to smallest priority, C++ operators are evaluated in the following order:

Grouping
Left-to-right
ent
Left-to-right
Leit-to-right
nt
Right-to-left
Left-to-right
ssignment Right-to-left
Left-to-right
_

Operator Precedence

Question: What was the concept of operator precedence called in mathematics class?

Answer:

What is an Expression?

An expression is a sequence of operators and their operands, that specifies a computation.

Tutorial 2 - Quadratic Equation - Solution