Mindluster Platform

About the course Bitwise Operators

What is Bitwise operator? Bitwise operators are used to change individual bits in an operand. A single byte of computer memory-when viewed as 8 bits-can signify the true/false status of 8 flags because each bit can be used as a boolean variable that can hold one of two values: true or false. Are Bitwise Operators faster? Bitwise operations are incredibly simple and thus usually faster than arithmetic operations. For example to get the green portion of an rgb value, the arithmetic approach is (rgb / 256) % 256 . With bitwise operations you would do something as (rgb >> 8) & 0xFF.Why do we need Bitwise Operators? Bitwise operators are a great way to make very efficient use of space when representing data. ... Typically, integers are 32 bits, so this would mean sending back 64 bits of data. However, we can make this much more space-efficient by using bitwise operators. Why use Bitwise operators in C? BITWISE OPERATORS are used for manipulating data at the bit level, also called bit level programming. Bitwise operates on one or more bit patterns or binary numerals at the level of their individual bits. They are used in numerical computations to make the calculationWhat is Bitwise exclusive or? The bitwise exclusive OR operator (^) compares each bit of its first operand to the corresponding bit of its second operand. If the bit in one of the operands is 0 and the bit in the other operand is 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0

Computer Science Category's Courses

Course Lesson(4)

Lesson 1 : **Bitwise Operators 1 The AND Operation**

Lesson 2 : **Bitwise Operators 2 The OR Operation**

Lesson 3 : **Bitwise Operators 3 The XOR Operation**

Lesson 4 : **Bitwise Operators 4 The Logical Shift Operation**

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