TRINITY COLLEGE FOR WOMEN NAMAKKAL
Department of Mathematics

C PROGRAMMING LANGUAGE II
23UCSA05 – EVEN Semester

OPERATORS

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DEFINITION: OPERATORS

An operator is a symbol that specifies an operation to be performed on the operands. The data items that operators act upon are called operands.

Some operators require two operands called binary operators, while other acts upon only one operand called unary operator. C has rich set of operators which can be classified as:

*Arithmetic operators

*Relational operators

*Logical operators

*Assignment operators

*Increment and Decrement operators

*Conditional operators

*Bitwise operators

*Special operators

ARITHMETIC OPERATORS:

C allows us to carry out basic arithmetic operation like addition, subtraction, multiplication and division. The following table shows the arithmetic operators and their meaning.

RELATIONAL OPERATORS:

Relational operatiors are used to compare two or more operands. Operands may be variables, constants or expressions.

ASSIGNMENT OPERATORS:

The assignment operator evaluates an expression on the right of the expression and substitutes it to the value or variable on the left of the expression.

INCREMENT AND DECREMENT OPERATORS:

The increment and decrement operators

are one of the unary operators which are very useful in C language. They are extensively used in for and while loops.

CONDITIONAL OR TERNARY OPERATOR:

The conditional operator consists of 2 symbols the question mark (?) and the colon (:)

BITWISE OPERATORS:

A bitwise operator operates on each bit of data. Those operators are used for testing, complementing or shifting bits to the right on left. Bitwise operators may not be applied to a float or double.

SPECIAL OPERATORS:

C supports some special operators of interest such as comma operator, size of operator, pointer operators (& and *) and member selection operators (. and ->).

THANK YOU

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