



# Problem Solving With C - UE24CS151B

## Operators in C

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1. Operators and its Classification
2. Expression
3. Sequence point operation

### Operator and its Classification

- Operator is a symbol used for calculations or evaluations
- Has rank, precedence and Associativity
- **Classification:** Based on the operation:

Arithmetic – Increment(++ ) & Decrement(--)

Relational - >, <, <=, >=, ==, !=

Logical(short circuit evaluation) - &&, ||, !

Bitwise - &, |, ~, ^, <<, >>

Address - &

Dereferencing Operator - \*

Based on the operands: Unary, Binary, Ternary

### Expression

- An expression consists of Operands and Operators
- Evaluation of Operands: Order is not defined
- Evaluation of Operators: Follows the rules of precedence and rules of Associativity

<http://web.cse.ohio-state.edu/~babic.1/COperatorPrecedenceTable.pdf>

- L-value and R-values.
- Side effects of Expression
- Coding examples

### Sequence point Operation

- Specifies points in the code beyond which all side effects will definitely be complete
- Beyond this, any variable can be used with no ambiguity
- Coding examples with &&



## THANK YOU

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