



Fundamentals of  
Data Structures using C

# Notations-Arithmetic Expressions

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# Introduction

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- There are 3 different ways of representing the algebraic expression.
  - Infix notation
  - Postfix notation
  - Prefix notation

# Infix Notation

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- In infix notation, the arithmetic operator appears between the two operands to which it is being applied.
- For example:

$$A/B+C$$

# Postfix Notation

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- In postfix notation, the arithmetic operator appears directly after the two operands to which it applies.
- It is also called as reverse polish notation.
- For example:

$$((A/B) + C) \rightarrow AB/C+$$

# Prefix Notation

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- In prefix notation, the arithmetic operator is placed before the two operands to which it applies.
- It is also called as polish notation.
- For example:

$$((A/B) + C) \quad \rightarrow \quad +/ABC$$

Queries?

Thank You!