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Implicit And Explicit Sequence Control Sequencing With Arithmetic And Non Arithmetic Expressions Subprogram



Implicit and Explicit Sequence Control:

Sequence control structures may be either implicit or explicit.

Implicit sequence-control structures:

These are defined by language to be in effect 'un1es'smodified by the programmer through some explicit structure. For example, most languages define the physical sequence of statements in a program as controlling the sequence in which statements are executed, unless modified by an explicit sequence-control statement.

Explicit sequence-control structure

These are the sequence-control structures that the programmer may optionally use to modify the implicit sequence of operations defined by the language.

- The stack organization is very effective in evaluating arithmetic expressions
- the order of operators and operands in an arithmetic expression does not uniquely determine the order in which the operations are to be performed.
- Polish notation (prefix notation)
 - It refers to the notation in which the operator is placed before its two operands. Here no parentheses are required, i.e., +AB
- Reverse Polish notation(postfix notation)
 - It refers to the analogous notation in which the operator is placed after its two operands. Again, no parentheses is required in Reverse Polish notation, i.e., AB+

- A Subprogram is a program inside any larger program that can be reused any number of times
- A Subprogram is implemented using the Call & Return instructions in Assembly Language.
- The Call Instruction is present in the Main Program and the Return(Ret) Instruction is present in the subprogram itself.

