Kevice – Chuunibyou Club

Stack & Queue

1.

STACK	QUEUE
FILO(1st in LAST out)	FIFO(1st in FIRST OUT)

2.

Infix : Operator in between operand

5 + 6 * 3

== 5+ (6*3)

== 5 + 18

== 23

Prefix: Operator before (left side of) operand

+ 5 * 6 3

== +5 (6*3)

== +5 18

== 23

Postfix: Operator after (right side of) operand

5 6 3 * +

== 5 (6 *3) +

== 5 18 +

== 23

Implementation using stack

INFIX

Scan from left to right

Jika operand di output

Jika operator , if precedence operatornya lebih besar dari precedence operator yg sudah ada di stack maka di push, else pop semua operator yang lebih besar precedencenya dari yg di scan

Jika yg di scan adalaah ‘(‘ push ke stack, jika ‘)’ pop stacknya dan output sampai ‘(‘ dan buang kurungnya

Broses diatas berjalan terus hingga infix expressionnya di scan semua

Print outputnya

Pop dan output dari stack sampai tidak kosong

POSTFIX

Scan from left to right

If operand push to stack

If operator, pop 2x (A & B) lalu push hasil (B operator A) ke stack

PREFIX

Scan from right to left

If operand push to stack

If operator, pop 2x, lalu push hasil ke stack