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

Search highest precedence

➔ Jika (), pas ketemu (, cari) lalu hitung yang didalam

Jika sudah tidak ada operator sudah selesai

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