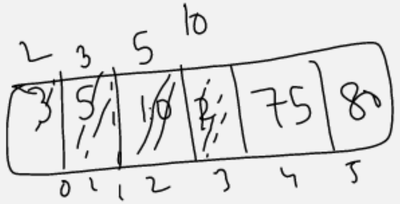
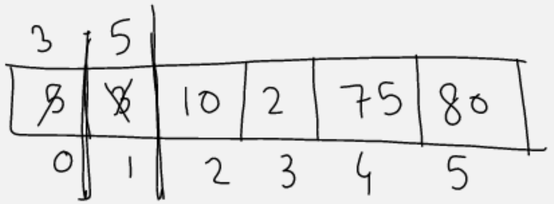
20/08/23

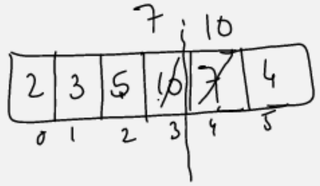
Data Structure

Insertion Sort

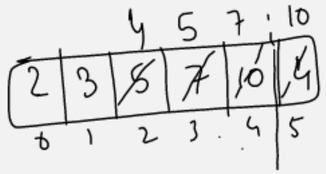




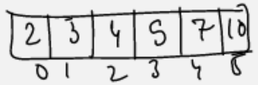
temp = 10

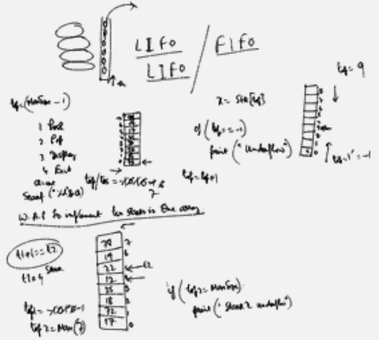


temp = 7



temp = 4





a+b → Infix expression
+ab → Prefix
ab+ → Postfix

(a+b)*(c/d)/e

[ab+] * [cd/] / e

[ab+cd/*] / e

ab+cd/*e/

a*b/c

Λ → Power (3)
*, / → ... (2)
+, - → (1)

a-(b^c)*c/d-e+g/h

a-[bc^]*c/d-e+[gh/]

a-[bc^c*]/d-e+[gh/]

a-[bc^c*d/]-e+[gh/]

[abc^c*d/-]-e+[gh/]

[abc^c*d/-e-]+[gh/]

abc^c*d/-e-gh/+

1. (
2.)
3. operand
4. operator

(a+b)*(c/d)/e

ab+cd/*e/

a^b/c^d-e*f+g)

a	(	a
+	(+	a
b	(+	ab
/	(/	ab^
c	(/	ab^c
^	(/^	ab^c
d	(/^	ab^cd
-	(-	ab^cd^/
e	(-	ab^cd^/e
*	(-*	ab^cd^/e
f	(-*	ab^cd^/ef
+	(+	ab^cd^/ef*-
g	(+	ab^cd^/ef*-g
)		ab^cd^/ef*-g+