27/7/24

1 Inbix to postfix:

Julex Expression: A* (B*C+D*F)+F:

8. No	Cwment A token	Operator 8tack	Postfix string
11	A	1191191	A
2	*	*	*
3	€ 384		A + A O A
9	B ** 384	*(A
	a Land	* €	AB
5	*	* (*	AB
6	+C **	* (*	ABC
7	+	*(+	ABC*
8	D	* (+	ABC+ D
9	*	*(+*	ABC+ D
10	12	* (+ *	ABC* DE
11		*	ABC* DE * +
12	+	+	ABC & DE X + X
18	F	+	ABC* DE* +*F
14		4	ABC * DE * + *F+
	4.11		11

Postfix Expression &: ABC* DE* + *F+

3+0

74(310)

(14 11 g \ (a- 1)

1

2 d	bix.	Expression:	A + B ^ C +D operator operator	postfix string
	s.No	current token	openation stack	Tuest A St. Class
	1.	A		A
	2.	*	*	AB
	8	В	* ^	AB
7	4.	^		ABC
	n	C	* ^	ABC 1-
	6	+	+	ABC 1* D
	7	D	+ 1) +	
	8	28	4) +	ABC 1 D+
	Post Le	to Pul	Expression: ABC	
		tio the	AB- DE	+ F*/
	S-No	Reading of	Stack top	Expression
	1		A	LA
	2	A B	B	B
	3	+++30 43	A-B	A-B
	4	D	D	D A-B
	5	1 E + 1	1 to 12 100	D A-B
	6	+	DHE	. / .
	7	F	F	DIE A-B
	8			Dte A-B
	0	*	((DIE)*E)	(D+F)*F
	9	1	(A -B) / DHE	**
		Infix Exp	prossion: (A-B)	1((DIE) + E)

ostfix 8.No	Symbol		Stack	
1	a		a	
2	b		db	
8	C	1 bacoust	abc	
4	*		a(btc)	
n	+ v c	, yend	a(b*c)c	
6	III e		a(btc)de	
7 (deat		a (b*c) (d-e)	
8			a ((6+c)/(d-e))	
9	+		(a+ (16×c)/(d-e))	1

(a+6)* (c-d)

	(car	0.)		
8.10	8ymbol -	stack	Action Token	Expression So
1	6	(push' ('	- (
2	Class	CC	Push (c)	((
3	a	((Append 'a'	((a)
G	+	((Append (+)	((a+
F	b	((Append (b)	((atb
6	Xinden	C pass	pop (C)	((a+b)
4	*	(*	push '#'	((a+b)*
8	((*(push (c)	(la+b)* (
9	C	C*C	Append (C)	(Cath)* (c
10	-	1ªC	Append (-)	(catb)* (c-
11	d	(*(Append'd'	(catb) * (c-d)
12)	C*	pop (c'	(a+b)* (c-d)
13)		pop'c'	((a+10) * (c-d))

It is valid for 'Balanced Symbol'

6 Balancing Symbol:

[d(a+b)*c3-d]

SNo	Symbol	stack	Action Taken	Expression so fan
1		[1]	puh'()	0 (
2	a		Append 'a'	Ca
3	+	[(,+]	puh 't'	Cat
4	b 9	[cit]	Append b'	9 (a+b
5)(a - h	[C,4]	pop'c'	(a+b)
Ь	(6-6)	[C,+,*]	push '*'	(ath) A
4	C	[c,*]	Append 'c'	(atb) *c
8)	[1]	pop 'C'	(a+b)*C
9	_	[[-, -]	bob , - ,	(a+b) * c-
lo	d	[c,-]	Append 'cl'	(a+b)* c-d
u	End o	Ø	pop remaining	1 340 18
1	1 10		o perators.	(a46) * c-d
	alt.	ts valld	for Balanced	Sumbol: