

WELCOME TO UNACADEMY

(Stack part -6)

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Ques: $((A+B)*D) \uparrow (E-F)$

By normal method

$$\Rightarrow ([AB+] * D) \uparrow (E-F)$$

$$\Rightarrow [AB+D^{\bar{*}}] \uparrow (E-F)$$

$$\Rightarrow [AB+D^{\bar{*}}] \uparrow [EF-]$$

$$\Rightarrow AB+D^{\bar{*}} EF - \uparrow$$

Ans:

By using Stack:

SYMBOL	STACK	P
(CC	
(((C	
A	((C)	A
+	((C)+	A
B	((C)+	AB
)	((AB+
*	((*	AB+
D	((*	AB+D
)	(AB+D*
↑	(↑	AB+D*
((↑(AB+D*
E	(↑(AB+D*E
-	(↑(-	AB+D*E
F	(↑(-	AB+D*EF
)	(↑	AB+D*EF-
)		AB+D*EF-1
<i>Ans:-</i>		AB+D*EF-1

Ques: $A * B + C$

1) By normal method of postfix:

$$\Rightarrow \boxed{A * B} + C$$

$$\Rightarrow \boxed{[AB *]} + C \quad // \text{operator after operands}$$

$$\Rightarrow [AB * C +]$$

$$\Rightarrow AB * C +$$

Ans:

SYMBOL	STACK	P
A	(A
*	(*	A
B	(*	AB
+	(+	AB*
C	(+	AB*C
)		AB*C+

Ans: - AB*C+

Ques: $A + (B * C - (D / E \uparrow F))$

SYMBOL	STACK	P
A	(A
+	(+	A
((+ (A
B	(+ (AB
*	(+ (*	AB
C	(+ (*	ABC
-	(+ (-	ABC *
((+ (- (ABC * D
D	(+ (- (/	ABC * D
/	(+ (- (/	ABC * D E
E	(+ (- (/	ABC * D E
↑	(+ (- (/ ↑	ABC * D E
F	(+ (- (/ ↑	ABC * D E F
)	(+ (-	ABC * D E F ↑ /
)	(+	ABC * D E F ↑ / -
)		ABC * D E F ↑ / - +
Ans:-		ABC * D E F ↑ / - +