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1. Write an algorithm to convert an infix expression to postfix and infix to prefix

INPUT CHARACTER	STACK	POSTFIX EXPRESSION
A	Empty	A
*	*	A
B	*	A B
—	—	A B *
(	— (	A B *
C	— (	A B * C
+	— ( +	A B * C
D	— ( +	A B * C D
)	—	A B * C D +
+	+	A B * C D + —
E	+	A B * C D + — E
End of Input	Empty	A B * C D + — E +

**POSTFIX EXPRESSION :- A B \* C D + — E +**

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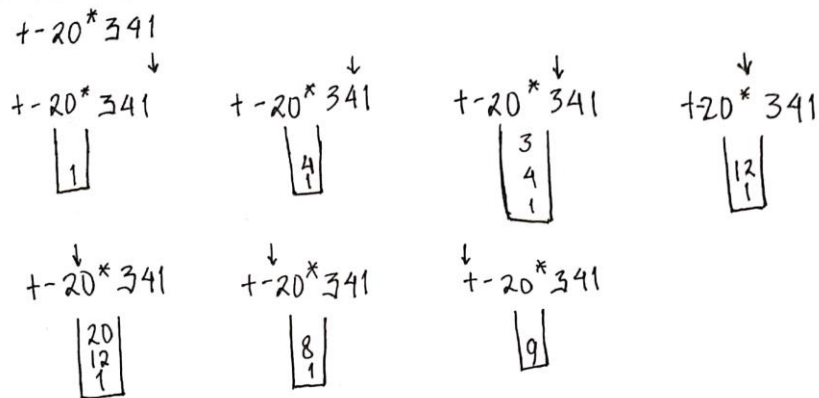
INPUT CHARACTER	STACK	EXPRESSION
F		F
^	^	F
)	^)	FE
E	^)	FE
-	^)-	FE
D	^)-	FED
(	^)-	FED-
-	-	FED-^
C	-	FED-^C
+	+	FED-^C-
)	+) )	FED-^C-
B	+) )	FED-^C-B
+	+) ) +	FED-^C-B
A	+) ) +	FED-^C-BA
(	+	FED-^C-BA+
End of Input	empty	FED-^C-BA++

**PREFIX EXPRESSION : ++AB-C^ -DEF**

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2. Write an algorithm to evaluate a postfix and a prefix expression

### A. Prefix



### B. Postfix

