

Nama : Jeri Amanda  
 NPM : G1F021007  
 Matkul : Algoritma dan Struktur Data

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 +

Nama : Jeri Amanda  
 NPM : G1F021007  
 Matkul : Algoritma dan Struktur Data

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

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

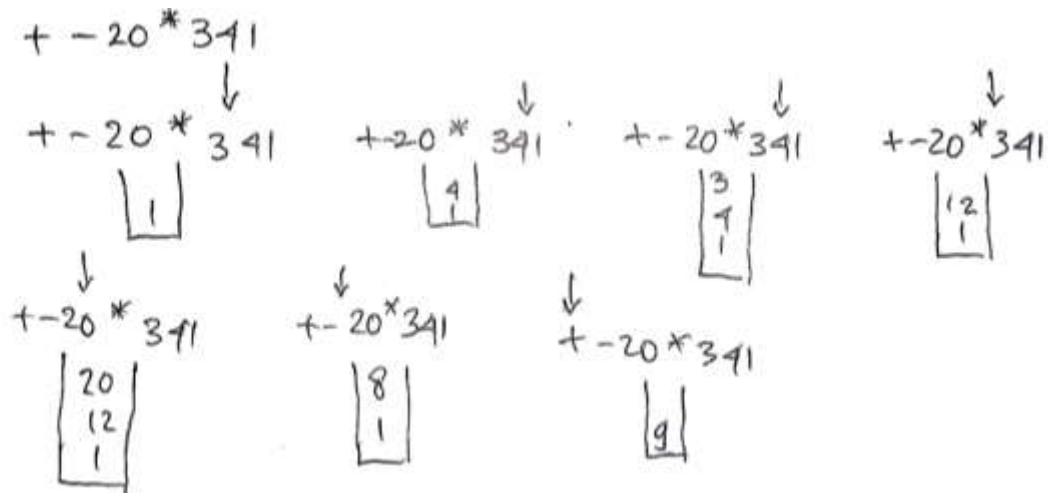
INPUT CHARACTER	STACK	EXPRESSION
F		F
^	^	F
)	^)	FE
E	^)	FE
-	^)-	FE
D	^)-	FED
(	^)-	FED-
-	-	FED-^
C	-	FED-^C
+	+	FED-^C-
)	+) )	FED-^C-
B	+) )	FED-^C-B
+	+) +	FED-^C-B
A	+) +	FED-^C-BA
(	+	FED-^C-BA+
End of Input	empty	FED-^C-BA++

Nama : Jeri Amanda  
 NPM : G1F021007  
 Matkul : Algoritma dan Struktur Data

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

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

### A. Prefix



### B. Postfix

