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SOAL

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

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

PEMBAHASAN

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

Input Character	STACK	POSTFIX EXPRESSION
A	Empty	A
*	*	A
В	*	АВ
-	-	A B *
(- (A B *
С	- (A B * C
+	- (+	A B * C
D	- (+	A B * C D
)	-	A B * C D +
+	+	A B * C D + -
Е	+	A B * C D + - E
End Of Input	Empty	A B * C D + - E +

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

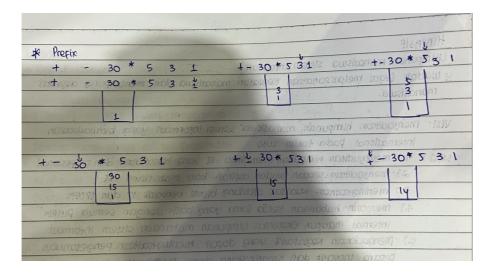
INPUT CHARACTER	STACK	EXPRESSION
F		F
*	٨	F
)	^)	FE
Е	^)	FE

-	^)-	FE
D	^)-	FED
(^)-	FED-
-	-	FED-^
С	-	FED-^C
+	+	FED-^C-
)	+)	F E D - ^ C -
В	+)	F E D - ^ C - B
+	+)+	F E D - ^ C - B
А	+)+	F E D - ^ C - B A
(+	F E D - ^ C - B A +
		FED-^C-BA++

PREFIX EXPRESSION: + + A B - C ^ - D E F

2. algorithm to evaluate a postfix and a prefix expression

*PREFIX



*POSTFIX

