Infix to Postfix Conversion Example (Using Stack)

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Infix to Postfix Example
Pre-requisite :

- What is Infix and Postfix ?
- Infix to Postfix Algorithm

Expression	Current Symbol	Stack	Output	Comment
A/B^C-D	Initial State	NULL	-	Initially Stack is Empty
/B^C-D	A	NULL	A	Print Operand
B^C-D	/	/	A	Push Operator Onto Stack
^C-D	B	/	AB	Print Operand
C-D	^	/^	AB	Push Operator Onto Stack because Priority of ^ is greater than Current Topmost Symbol of Stack i.e '/'
-D	C	/^	ABC	Print Operand
D	-	/	ABC^	**Step 1 :** Now '^' Has Higher Priority than Incoming Operator So We have to Pop Topmost Element . **Step 2 :** Remove Topmost Operator From Stack and Print it
D	-	NULL	ABC^/	**Step 1 :** Now '/' is topmost Element of Stack Has Higher Priority than Incoming Operator So We have to Pop Topmost Element again. **Step 2 :** Remove Topmost Operator From Stack and Print it
D	-	-	ABC^/	**Step 1 :** Now Stack Becomes Empty and We can Push Operand Onto Stack
NULL	D	-	ABC^/D	Print Operand
NULL	NULL	-	ABC^/D-	Expression Scanning Ends but we have still one more element in stack so pop it and display it

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