

Steps to convert Infix expression to Postfix expression using Stack:

1. Create an Empty stack , **st**
2. Do following for every character x from left to right
3. If x is
 - a. Operand :o/p it
 - b. Left Parenthesis: push to **st**
 - c. Right Parenthesis : Pop from **st** until left Parenthesis is found . o/p the popped character
 - d. Operator: if **st** is empty push x to **st** , Else Compare **st** with top.
 - i. Higher Precedence (than **st** top) , push to **st**.
 - ii. Lower Precedence, Pop **st** and output until a higher precedence operator is found . Then push s to **st**.
 - iii. Equal precedence we use associativity
 - e. Pop and output everything from **st**

Precedence Table:-

Operator	Precedence
^	5
*	4
/	4
+	3

Operator	Precedence
-	3
<<	2
>>	2
&	1
	1
(0
)	0