INITIALIZE STACK =>

→ Scan infix expression from left to right

→ If scanned symbol is an operand print on o/p

→ If scanned symbol is left parantheris ᶠ PUSH it into stack.

→ If scanned symbol is right paranthesis POP stack until left paranthesis occurs

→ If scanned symbol is an operator POP the stack & print the o/p until it satisfies 2 conditions :-

* TOP of the stack must have greater [OR] equal precedency than our operator

* stack is not "EMPTY", then "PUSH" operator into stack.

→ Then 'PUSH' operator into stack

→ Repeat above process until end of INFIX expression

→ If stack has any remaining elements. POP & print on output.

Ex:-

$$5 + 3 * (7 + 3 * 8) + 5 / 6$$

SCANNED SYMBOL	STACK CONTENTS	O/P
5		5
+	+	5
3	+	5 3
*	+ *	5 3
(	+ * (	5 3
7	+ * (	5 3 7
+	+ * (+	5 3 7
3	+ * (+	5 3 7 3
*	+ * (+ *	5 3 7 3
8	+ * (+ *	5 3 7 3 8
)	+ *	5 3 7 3 8 * +
+	+	5 3 7 3 8 * + * +
5	+	5 3 7 3 8 * + * + 5
/	+ /	5 3 7 3 8 * + * + 5
6	+ /	5 3 7 3 8 * + * + 5 6
		5 3 7 3 8 * + * + 5 6 / +