Algorithm to convert infix to prefix

1. *Reverse* the input string.

2. *Start checking from the first position of the string.*

3. *If it is an operand then direct output it to prefix.*

4. *Else it is operator '+' , '-' , '*' , '/', '(' , ')'*

    a. If it is ')' then push it to stack.

    b. Else if it is '(' then pop from stack until the top of stack is become ')' and

       discard it ')'.

    c. Else

        * *If it has higher priority than the top of stack, then push it to stack.*

        * *Else pop from stack to prefix until it's priority become higher than*

          the top of the stack and then go back to previous step.

5. *If there is more input then go back to step 2.*

6. *If there is no more input then unstack all the remaining operators & add them   to prefix.*

7. *Then reverse the output string.*