**ALGORITHM TO CONVERT INFIX TO PREFIX.**

Suppose given Infix expression:

x\*y-a/b

Step 1: Paranthesize the expression.

( (x\*y) - (a/b) )

Step 2: Convert the brackets first to prefix.

( [\*xy] - [/ab] )

Step 3: Once all brackets are prefixed, start to convert the expression to prefix according to their precedence.

( - [\*xy][/ab] )

Thus, the final expression that we get is:

=> -\*xy/ab

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Let us take some more examples:

a. Infix: x+y+z-a\*b

=> Prefix = x+y+z-(a\*b)

= x+y+z-[\*ab]

= x+y+(z-[\*ab])

= x+y+[-z\*ab]

= [+xy]+[-z\*ab]

= ++xy-z\*ab

b. Infix: x/y\*z

=> Prefix = (x/y)\*z //Here, '/' & '\*' have same precedence, so we solve it in a left to right convention.

= [/xy]\*z

= \*/xyz