Infix, Poefix & Postfix in Stock 1) > Infix -> x+y Adv 1) Precedence & Amouativity Postfin -> xy+ Rules not reg Poefix -> + ny 2) (on be exclusted in one toaversal only. 2) (x+y)*3 -> *+273 24134 2+443 -> 2424 2) Infin to Postfin Associationly operator | Right to left 18,1 lest to right a) Simple Sol Precedence & fully paranthesize the expression and then solve. 5) Rfficent (Stack based) Imput -> a+b*c Result (Postfix) Input Symbol (x) | Stack a a al 1 a 5 asc

Pep out ercything - , annu s abc # + one by one.

Algorium

- 1) Creek an empty stack, st
- 1 so the following for every character & from left to right.
- @ of x 90:
 - a) An operand: Output it
 - b) left pasantheris: Puth to st
 - C) Right paroentheris: Pop from et until left Paraentheris
 91 found, Output me popped operators.
 - d) Operator: 97 stack in empty, push to et.

else (compare x with st. top())

- 9) of x has higher precedence than st. top, push to 81.
- ii) of lower, pop 8t. top and output with a lower precedence 9s found. Then push & to 8t.
- iii) Equal precedence, use associativity and output esergthing from st.

formilerly for prefix. 1) » Replace 6) with c) & vice versa.

2) » Go from right to left instead of left to right.