inforto Pistfin > AxB+(c-0)+E > 16 we are daing postfin then we can fake left to Right of the String.

Bbut in the case of prefix first you should reverse the given string and scan the Icht to right and prepare the result. They final output its reverse of the result.

infor > Ax(B-c)

prefor > reverse the infox emp the process the relat then

prefor > reverse the result.

sinfor > Ax(B-c) - reverse >)C-B(*A) find the pattin then

find relative reverse the

Algorithm for infin to Prefin >

- 1 First, reverse the infix expression given in the problem.
- Scan the expression from left to right.Whenever the operands arrive, print them.
- 4 If the operator arrives and the stack is found to be empty, then simply push the operator into the stack.
- If the incoming operator has higher precedence than the TOP of the stack, push the incoming operator into the stack.
- If the incoming operator has the same precedence with a TOP of the stack, push the incoming operator into the stack.

 If the incoming operator has lower precedence than the TOP of the stack, pop, and print the top of the stack. Test the incoming operator against the top of the stack again and pop the operator from the stack till it finds the operator of a lower precedence or same precedence.

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- 8 If the incoming operator has the same precedence with the top of the stack and the incoming operator is ^, then pop the top of the stack till the condition is true. If the condition is not true, push the ^ operator.
- 9 When we reach the end of the expression, pop, and print all the operators from the top of the stack.
- 10 If the operator is ')', then push it into the stack.
- 11 If the operator is '(', then pop all the operators from the stack till it finds) opening bracket in the stack.
- 12 If the top of the stack is ')', push the operator on the stack.
- 13 At the end, reverse the output.

a binall print the result.

Prefin > A * (B-c) charEn= 8tr.charAt(i); Of incoming character 18 elphabet or digit then Porpose postfix 1 string result="1; > 1.21 km enp then continue. 16 (Character. MLetter or Di dit (ch)) result = reluit + ch; 2) If theowing character continue; is opening bracket lik "(then puch into elle A-(ch == "('){ the Stack. Struck · pulm (ch); 3 if incoming character 118 ese 17(ch = = ')'){ clasing bracket () then pop the stack and prepare While (1819CK. is Empty c) 90 90 the partfun until tind Stack. peeko! = "('){ opening bracket (: + result - result + star peckes; 母したつり、*/つろ、ハラ! Stack-popes; Stack. popcy; of incoming symbol has lower or equal precedence essch from top of the stack while (! 8tack. 18 Empty 1) 20 90 men pop the stack and getpriority (ch) <= getpriority (819ch. pecka) prepare the prefon. result = result + 8 tack · peek(); 3 A maming symbol precedence Stack, popci, is greater than top of the stack. push (ch); stack then push into the Stack. (6) finally print the stack While (! Stack. IS Emptace)} until stack is empty. result = result + 8 tack-peek ();

Stack poply;

public Stadic int getPrionity(char ch){

Switch (ch) {

Cale '+':

Case '-':

return 1;

Case '*':

Case '/':

return 3

}

return -1