

DSA_College\prefix_to_infix.cpp

```
1  #include <bits/stdc++.h>
2  using namespace std;
3
4  bool isOperand(char x)
5  {
6      return (x >= 'a' && x <= 'z') ||
7             (x >= 'A' && x <= 'Z');
8  }
9
10 string getInfix(string exp) // read from right to left
11 {
12     stack<string> s;
13
14     for(int i= exp.length()-1; i>= 0; i--)
15     {
16         if(isOperand(exp[i])) // push operands
17         {
18             string op(1,exp[i]) ;
19             s.push(op) ;
20         }
21         else{
22             // assuming a valid prefix expression
23             string op1 = s.top() ;
24             s.pop() ;
25             string op2 = s.top() ;
26             s.pop() ;
27             s.push("(" + op1 + exp[i] + op2 + ")") ;
28         }
29     }
30     return s.top() ;
31 }
32
33 int main()
34 {
35     string exp = "-A/BC-/AKL" ;
36     cout<<getInfix(exp) ;
37     return 0;
38 }
```