DSA_College\postfix_to_infix.cpp

```
1
   #include <bits/stdc++.h>
 2
   using namespace std;
 3
 4
   bool isOperand(char x)
 5
       return (x >= 'a' && x <= 'z') ||
 6
 7
              (x >= 'A' \&\& x <= 'Z');
 8
   }
 9
10
   string getInfix(string exp)
11
12
        stack<string> s;
13
        for (int i=0; exp[i]!='\0'; i++)
14
15
            // Push operands
16
17
            if (isOperand(exp[i]))
18
19
               string op(1, exp[i]);
20
               s.push(op);
21
            }
22
23
            // We assume that input is
            // a valid postfix and expect
24
25
            // an operator.
26
            else
27
            {
28
                 string op1 = s.top();
29
                 s.pop();
30
                 string op2 = s.top();
31
                 s.pop();
                 s.push("(" + op2 + exp[i] +
32
33
                        op1 + ")");
34
            }
35
        }
36
37
        // There must be a single element
        // in stack now which is the required
38
39
        // infix.
        return s.top();
40
41
   }
42
43
   int main()
44
        string exp = "ab*c+";
45
46
        cout << getInfix(exp);</pre>
47
        return 0;
48 }
```