//Infix to Postfix

```
#include<iostream>
#include<stack>
#include<string>
using namespace std;
// Function to return precedence of operators
int prec(char c)
  if (c == '^')
  return 3;
  else if (c == '/' || c == '*')
  return 2;
  else if (c == '+' || c == '-')
  return 1;
  else
  return -1;
}
void infixToPostfix(string s)
{
stack<char> st;
string result;
for (int i = 0; i < s.length(); i++) {
  char c = s[i];
if ((c \ge 'a' \&\& c \le 'z') | | (c \ge 'A' \&\& c \le 'Z')
|| (c >= '0' && c <= '9'))
result += c;
```

```
// If the scanned character is an // '(', push it to the stack.
else if (c == '(')
st.push('(');
// If the scanned character is an ')',
// pop and to output string from the stack
// until an '(' is encountered.
else if (c == ')')
{
  while (st.top() != '(')
  {
    result += st.top();
    st.pop();
}
st.pop();
}
// If an operator is scanned
else {
while (!st.empty() && prec(s[i]) <= prec(st.top())) {</pre>
  result += st.top();
  st.pop();
}
st.push(c);
}
}
// Pop all the remaining elements from the stack while (!st.empty()) { result += st.top(); st.pop(); }
cout << result << endl;</pre>
}
// Driver's code
int main() {
string exp = a+b*(c^d-e)^(f+g*h)-i;
```

```
// Function call
infixToPostfix(exp);
return 0;
}
```