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#include <bits/stdc++.h>
using namespace std;
bool is_operator()
string postfixToInfix(string str)
  stack<string> st;
  for (int i = 0; i < str.size(); i++)
     if (str[i] >= 'A' \&\& str[i] <= 'Z')
        st.push(string(1, str[i]));
     }
     else
     {
        string x = st.top();
        st.pop();
        string y = st.top();
        st.pop();
        string m = '(' + y + str[i] + x + ')';
        st.push(m);
     }
  return st.top();
}
int precedence(char c)
  if (c == '^{\prime})
     return 3;
  if (c == '/' || c == '*')
     return 2;
  if (c == '+' || c == '-')
     return 1;
  if (c == '(')
     return 0;
}
void infixToPostfix(string s)
  stack<char> st;
  for (int i = 0; i < s.size(); i++)
     if (s[i] >= 'A' \&\& s[i] <= 'Z')
     {
        cout << s[i];
     else if (s[i] == '(')
        st.push(s[i]);
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else if (s[i] == ')')
        while (st.top() != '(')
          cout << st.top();</pre>
          st.pop();
        st.pop();
     }
     else
     {
       while (!st.empty() && st.top() != '(' && precedence(s[i]) >= precedence(st.top()))
          cout << st.top();
          st.pop();
        st.push(s[i]);
     }
  }
  while (!st.empty())
     cout << st.top();
     st.pop();
}
int main()
  string s;
  cin >> s;
  string x = postfixToInfix(s);
  infixToPostfix(x);
}
#include <bits/stdc++.h>
using namespace std;
vector<stack<char>> ans;
void rec(int ind, int size, string str1, stack<char> prev)
  if (ind == size)
     ans.push_back(prev);
     return;
  for (int i = 0; i < size; i++)
     stack<char> new_stack = prev;
     new_stack.push(str1[i]);
     rec(ind + 1, size, str1, new_stack);
  }
}
int main()
```

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int n;
  cin >> n;
  string str1;
  cin >> str1;
  stack<char> new_stack;
  rec(0, n, str1, new_stack);
  for (int i = 0; i < ans.size(); i++)
     while (ans[i].size() > 0)
        cout << ans[i].top();
        ans[i].pop();
     cout << endl;
  }
  return 0;
#include <bits/stdc++.h>
using namespace std;
int f(int a[], int low, int hi){
  if(low == hi)
     return a[low];
  int temp = f(a,low+1,hi);
  return min(temp, a[low]);
}
#include <bits/stdc++.h>
using namespace std;
int maxx(int a[], int n)
  int maxi = INT_MIN;
  for (int i = 0; i < n; i++)
     maxi = max(maxi, a[i]);
  return maxi;
int minii(int a[], int n)
  int mini = INT_MAX;
  for (int i = 0; i < n; i++)
     mini = min(mini, a[i]);
  return mini;
}
void countsort(int a[], int n)
  int min = abs(minii(a, n));
  int max = maxx(a, n);
  int tm[max + min + 1];
  for (int i = 0; i < max + min + 1; i++)
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{
     tm[i] = 0;
  for (int i = 0; i < n; i++)
     tm[a[i] + abs(min)]++;
  for (int i = 0; i < max + min + 1; i++)
     cout << tm[i] << " ";
  cout << "FAAAA" << endl;
  for (int i = 0, j = 0; i < n;)
     while (tm[j] > 0)
        a[i] = j - abs(min);
        i++;
        tm[j]--;
     j++;
  for (int i = 0; i < n; i++)
     cout << a[i] << " ";
  cout << endl;
int main()
  int n = 11;
  int a[] = \{5, 4, 3, 2, 1, 0, -1, -2, -3, -4, -5\};
  countsort(a, n);
}
```