#include <iostream>

#include <cstring>

using namespace std;

int main()

{

 int i, k, n;

 char s[255];

 char w[255];

 char stos[100];

 int wsk\_stosu;

 cout << "Podaj wyrazenie w notacji klasycznej: " << endl << endl;

 for (i = 0; i < 255; i++)

 w[i] = '\0';

 cin >> s;

 cout << endl << endl;

 k = 0;

 n = strlen(s);

 cout<<"-"<<n<<"-";

 wsk\_stosu = 0;

 for (i = 0; i < n; i++)

 {

 if (s[i] >= '0' && s[i] <= '9')

 {

 w[k] = s[i];

 k++;

 } else

 switch (s[i])

 {

 case '(':

 wsk\_stosu++;

 stos[wsk\_stosu] = '(';

 break;

 case ')':

 while (stos[wsk\_stosu] != '(')

 {

 w[k] = stos[wsk\_stosu];

 k++;

 wsk\_stosu--;

 }

 wsk\_stosu--;

 break;

 case '\*':

 wsk\_stosu++;

 stos[wsk\_stosu] = '\*';

 cout<<"ta";

 break;

 default:

 while (wsk\_stosu > 0 && (stos[wsk\_stosu] == '+' || stos[wsk\_stosu] == '-' || stos[wsk\_stosu] == '\*'))

 {

 w[k] = stos[wsk\_stosu];

 cout<<"tu"<<w[k];

 k++;

 wsk\_stosu--;

 }

 wsk\_stosu++;

 stos[wsk\_stosu] = s[i];

 } // switch (s[i])

 } // koniec pętli for(i = 0; i < n; i++)

 while (wsk\_stosu > 0)

 {

 w[k] = stos[wsk\_stosu];

 k++;

 wsk\_stosu--;

 }

 cout << "Wyrazenie 'w' zapisane w notacji ONP:" << endl << endl;

 cout << w << endl << endl;

 system("PAUSE");

}