#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");

}