#include <iostream>

#include <conio.h>

#include <ctype.h>

using namespace std;

int stack[20];

int top = -1;

void Push(int x)

{

stack[++top] = x;

}

int Pop()

{

return stack[top--];

}

void main()

{

char exp[20];

char \*e;

int num,n1,n2,n3;

cout << "Enter the expression :: ";

cin >> exp;

e = exp;

while(\*e != '\0')

{

if(isdigit(\*e)) // The C library function void isdigit(int c) checks if the passed character is a decimal digit character.

{ // Decimal digits are (numbers) − 0 1 2 3 4 5 6 7 8 9.

num = \*e - 48; // convert char to integer

Push(num);

}

else

{

n2 = Pop(); // hold int value

n3 = Pop();

switch(\*e)

{

case '+':

{

n1 = n2 + n3;

break;

}

case '-':

{

n1 = n3 - n2;

break;

}

case '\*':

{

n1 = n2 \* n3;

break;

}

case '/' :

{

n1 = n3 / n2;

break;

}

}

Push(n1);

}

e++;

}

cout << "The result of Expression :: " << exp << " = " << Pop();

getch();

}