//CS311 Yoshii

//INSTRUCTION:

//Look for \*\* to complete this program (Use control-S)

//The output should match my hw1stackDemo.out

//=========================================================

//HW#: HW1P1 stack application (post-fix evaluation)

//Your name: \*\*

//Complier: \*\*

//File type: client program client1.cpp

//===========================================================

using namespace std;

#include <iostream>

#include <stdlib.h>

#include <string>

#include "stack.h"

//Purpose of the program: \*\*

//Algorithm: \*\*

int main()

{

stack postfixstack; // integer stack

string expression; // user entered expression

cout << "type a postfix expression: " ;

cin >> expression;

int i = 0; // character position within expression

char item; // one char out of the expression

int box1; // receive things from pop

int box2; // receive things from pop

while (expression[i] != '\0')

{

try

{

item = expression[i]; // current char

// \*\* do all the steps in the algorithm given in Notes-1

} // this closes try

// Catch exceptions and report problems and quit the program now (exit(1)).

// Error messages describe what is wrong with the expression.

catch (stack::Overflow)

{\*\* }

catch (stack::Underflow)

{\*\* }

catch (char const\* errormsg ) // for invalid item case

{\*\* }

// go back to the loop after incrementing i

\*\*

}// end of while

// After the loop successfully completes:

// Pop the result and show it.

\*\*

// If anything is left on the stack, an incomplete expression

// was found so inform the user.

\*\*

}// end of the program