CSC 330 PROJECT 4 DUE: MAY 14

Write a program that uses stacks to evaluate an arithmetic expression.

The program takes as input a numeric expression, such as 3+4\*2, and outputs the result.

1) Operators are +, -, \*, /

2) Assume that the expression is formed correctly so that each operation has two arguments.

3) The expression **can** have parenthesis, for example: 3\*(4-2)+6.

4) The expression **can** have negative numbers.

5) The expression **can** have spaces in it, for example: 3 \* (4-2) +6 .

Here are some useful method that you may need:

char cin.peek(); -- returns the next character of the cin input stream ( without reading it)

bool isdigit(char c); -- returns true if c is one of the digits ‘0’ through ‘9’, false otherwise

cin.ignore(); -- reads and discards the next character from the cin input stream

cin.get(char &c); -- reads a character in c ( could be a space or the new line )