IT 310

Fall 2017

Hart

Program V

In this assignment you are to write a Postfix evaluator program. For a quick review of postfix notation and how to evaluate a postfix expression visit the following tutorial site:

<http://scriptasylum.com/tutorials/infix_postfix/algorithms/postfix-evaluation/>

Note that one problem with the example given at this site is that the operands are restricted to single digit characters. In other words, the operands are restricted to 0,1,2,3,4,5,6,7,8, and 9. So

operands such as 32 or 567 are not allowed on pain of getting the wrong result. Your assignment is to write a postfix evaluator that allows multiple digit character strings as operands. You will do this by using a space character as a delimiter for operands. E.g., suppose the infix version of the expression is (10 + 320). The postfix equivalent would be 10 320+. Note the space after 10. This tells you that you have come to the end of the operand and it is 10. Your program should take a postfix expression (one that allows multiple digit character strings as operands) and outputs the result of evaluating it. With 10 320+ as input, the output would be 330.

This assignment is due in your dropbox by Monday November 20 at 11:59 p.m.