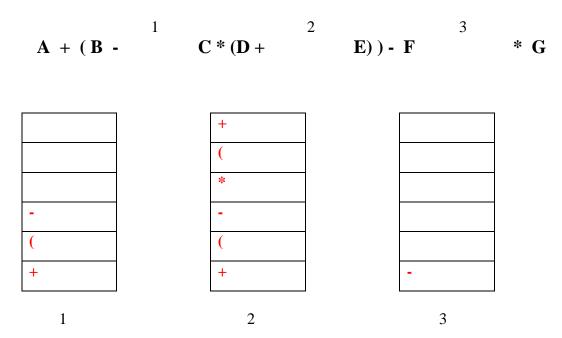
3) (5 pts) DSN (Stacks)

Convert the following infix expression to postfix using a stack. Show the contents of the stack at the indicated points (1, 2, and 3) in the infix expression.



Resulting postfix expression:

reserring postrix expression:																			
A	В	C	D	E	+	*	-	+	F	G	*	-							

Grading: 1 point for each stack, 2 points for the whole expression (partial credit allowed.)

Computer Science Foundation Exam

May 18, 2019

Section I B

DATA STRUCTURES

SOLUTION

NO books, notes, or calculators may be used, and you must work entirely on your own.

Name: _	 	 	
UCFID: _	 		
NID:			

Question #	Max Pts	Category	Score
1	10	ALG	
2	5	ALG	
3	10	DSN	
TOTAL	25		

You must do all 3 problems in this section of the exam.

Problems will be graded based on the completeness of the solution steps and <u>not</u> graded based on the answer alone. Credit cannot be given unless all work is shown and is readable. Be complete, yet concise, and above all <u>be neat</u>. For each coding question, assume that all of the necessary includes (stdlib, stdio, math, string) for that particular question have been made.