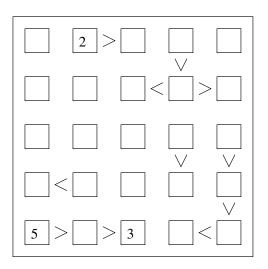
## CS2984: Introduction to Problem Solving, Fall 2007 Homework Assignment 6 Due at 11:00pm on Tuesday, October 2 45 Points

1. Solve the following cryptoarithmetic problem. The standard rules apply (no leading 0, a given letter is replaced by a digit consistently, etc.).

A B C A C D + E C D E C C A

2. The following is a type of puzzle sometimes called a "Futoshiki". Each box is filled with a digit from 1 to 5, such that every row and column contains one of each such digit. The puzzle starts with a few boxes filled in for you. There are also less than (<) and greater than (>) constraints noted on some of the boxes. Fill in the boxes in a way that meets all of these requirements.



3. The following is a type of puzzle sometimes called a "Kakuro" and sometimes called "Cross Sums". Fill in the empty boxes with digits (1-9). The numbers indicate what the adjacent horizontal or vertical boxes must sum to. You may never repeat a digit in any given sum.

$\sum$	23	30			27	12	16
16				24 17			
17			29 15				
35						12	$\sum$
	7			7 8			7
	11	16 10					
21					5		
6				$\sum$	3		