FINDING THE SMALLEST INTEGERS

This problem requires you to find the smallest integer that can be formed from the digits of a n-digit integer. The input data file, which must be called smallest.txt will contain any number of lines of data, with each line consisting of a single n-digit (1<=n <= 5) positive integer starting in the first column.

Your program must read each line of data containing one of these positive integers and produce a corresponding line of output which has on it the smallest integer that can be formed using the digits of the input integer.

The final output will display these new smallest integers, sorted in ascending order.

Sample input data (smallest.txt)
456
465
321
312
759
795

Sample output
123
123
456
456
579
579

Judge Data Set 1 - Input
406
570
301
210
700

Judge Data Set 1 – Output (20 marks each)
7
12
13
46
57

Judge Data Set 2 – Input
5013
2718
1001
9000
61200

Judge Data Set 2 – Output (20 marks each)
9
11
126
135
1278