ESCUELA COLOMBIANA DE INGENIERÍA PROGRAMACIÓN DE COMPUTADORES

Age Sort

Extracted from: UVA 11462 Source file name: age.py Time limit: 6 seconds

You are given the ages (in years) of all people of a country with at least 1 year of age. You know that no individual in that country lives for 100 or more years. Now, you are given a very simple task of sorting all the ages in ascending order.

Input

There are multiple test cases in the input file. Each case starts with an integer n ($0 < n \le 2000000$), the total number of people. In the next line, there are n integers indicating the ages. Input is terminated with a case where n = 0. This case should not be processed.

The input must be read from standard input.

Output

For each case, print a line with *n* space separated integers. These integers are the ages of that country sorted in ascending order.

Warning: Input Data is pretty big (~ 25 MB) so use faster IO.

The output must be written to standard output.

Sample Input S	Sample Output
	. 2 3 4 5