

DIFFICULT INTERVIEW

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Interviewer: Tell me about yourself

Student: I'm so and so.. bla bla bla.. I do have 6.2 cgpa with 10 current arrears

Interviewer: Tell me about your achievements

Student: Actually I've achieved nothing so far except getting selected for this interview

Interviewer: What are your hobbies?

Student: Uh.. Films, songs, roaming, being in facebook..

Interviewer: What kind of software are you familiar with?

Student: Hmm.. I'm good at MS word and MS paint and a little excel

Interviewer: Do you know something in Programming and Data Structures?

Student: Yeah.. They taught me some sorting algorithms..

Interviewer: Just sort the given strings and get into our company.

Input Specification:

The first line consists of an integer n , the no. of strings followed by n lines with one string ($1 \leq \text{length} \leq 12$) in each line.

Output Specification:

Just print the sorted order of strings one per line.

Input constraints:

$1 \leq n \leq 500000$

Sample Input:

4

apple

mango

banana

orange

Sample Output:

apple

banana

mango

orange