Sort Numbers

Given a list of integers, output the list in ascending order. If two numbers are equals, keep the order of them in the input.

Input

- The first line contains one integer N - the number of integers ($1 \le N \le 10^5$).

- The next line contains N integers which do not exceed 10^9.

Output

Include N lines, each line is an integer and the its index in the input.

Sample

https://drive.google.com/file/d/1EzeQ9kCyHqClAZZUheiz-0V-6B4gSi11/view?usp=sharing

Input	Output
5 4 1 0 2 1	0 2 1 1 1 4 2 3 4 0