Distinct Numbers

Given a list of integers, output the list in ascending order of distinct values and the corresponding number of occurrences of the value.

Input

- The first line contains one integer N the number of integers (1 \pounds N \pounds 10⁵).
- The next line contains N integers which do not exceed 109.

Output

Each line contains a value and the number of occurrences of the value.

Sample

https://drive.google.com/file/d/1F-hwy5zj26oFT7FITvYa3qDkjGdavaWh/view?usp=sharing

Input	Output
8	0 1
04315613	1 2
	3 2
	4 1
	5 1
	6 1