

# A List of Staffs 2

Given a list of staff in a company. Each staff has a start year (when he/she joined the company).

Output the number of staff joined the company each year.

## Input

- The first line contains one integer  $N$  - the number of staffs ( $1 \leq N \leq 10^5$ ).
- The second line contains  $N$  integers which are the start year of  $N$  staffs.

## Output

The list of years and number of staffs joined in the corresponding year. The list should be sorted by ascending year.

## Sample

Input	Output
10	1999 2
1999 2005 2021 2015 2016 2001 2005 1999	2001 1
2021 2010	2005 2
	2010 1
	2015 1
	2016 1
	2021 2