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The Virtual Learning Environment for Computer Programming

Counting frequences
P63414_en
Write a program that reads a sequence of natural numbers and that prints, for each one, how many times it appears.

## Input

Input consists of a natural number $n$, followed by $n$ natural numbers between 1000000000 and 1000001000 (both included).

## Output

For each number $x$ that appears in the sequence, print how many times it appears, following the format of the example. The output must be sorted in increasing order by $x$.

## Sample input

7
1000000001100000001110000000111000000004100000000410000002001000000004

## Sample output

```
1000000001:1
```

1000000004 : 3
1000000011 : 2
$1000000200: 1$

## Problem information

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