Problem 3: Keeping Duplicates

(Easy-Medium)

Alice has a list of strings and she would like to keep only the strings that appear in her list more than once. She would also like to know how many times each duplicate string appears in her list. Can you help her write a program to do so?

Input Format

The input consists of several lines, each containing a single string that appears in the list. Input is terminated with a line containing the number zero (`0`).

Constraints

- The size of the list, N, satisfy the inequality $1 \leq N \leq 10^6$
- Each string has a length of at least 1 and at most 20

The time limit for this problem is 1 second.

Output Format

Each line of output should contain a string and an integer. The string is a string which appears more than once in Alice's list; the integer is the number of times that the string appears in Alice's list.

The order of output should **follow the order of input**, that is the strings that were input first should be output first.

If there are no duplicates, output `No duplicates` instead.

Sample Input

```
hello
world
Hello
World
hello
people
people
HELLO
3
2
1
2
3
hello
0
```

Sample Output

```
hello 3
people 2
3 2
2 2
```