1. Active Traders

An institutional broker wants to review their book of customers to see which are most active. Given a list of trades by customer name, determine which customers account for at least 5% of the total number of trades. Order the list alphabetically ascending by name.

Example

n = 23
customers = ["Bigcorp", "Bigcorp", "Acme", "Bigcorp", "Zork", "Zork", "Abc", "Bigcorp", "Acme", "Bigcorp", "Bigcorp", "Zork", "Bigcorp", "Zork", "Zork", "Bigcorp", "Acme", "Bigcorp", "Acme", "Bigcorp", "Acme", "Littlecorp", "Nadircorp"].

Bigcorp had 10 trades out of 23, which is 43.48% of the total trades.

Both Acme and Zork had 5 trades, which is 21.74% of the total trades.

The Littlecorp, Nadir, and Abc had 1 trade each, which is 4.35% of the total trades.

So the answer is ["Acme", "Bigcorp", "Zork"] (in alphabetical order) because only these three companies placed at least 5% of the trades.

Function Description
Complete the function *mostActive* in the editor below.

mostActive has the following parameter:
string customers[n]: an array customer names

Returns
string[]: an alphabetically ascending array of customer names

Constraints

- $1 \le n \le 10^5$
- $1 \le$ length of *customers[i]* ≤ 20
- The first character of *customers[i]* is a capital English letter.
- All characters of *customers[i]* except for the first one are lowercase English letters.
- It is guaranteed that at least one customer makes at least 5% of trades.

▼ Input Format For Custom Testing

The first line contains an integer, *n*, the number of elements in *customers*.
Each line *i* of the *n* subsequent lines (where $0 \le i < n$) contains a string, *customers[i]*.

▼ Sample Case 0

Sample Input For Custom Testing

```
STDIN       Function
-----       --------
20      →   customers[] size n = 20
Omega   →   customers = ["Omega", "Alpha", "Omega", ..., "Beta"]
Alpha
Omega
Alpha
Omega
Alpha
Omega
Alpha
Omega
Alpha
Omega
Alpha
Omega
Alpha
Omega
Alpha
Omega
Alpha
Omega
Alpha
Omega
Beta
```

Sample Output

```
Alpha
Beta
Omega
```

Explanation
Alpha made 10 trades out of *20* (*50%* of the total), Omega made 9 trades (45% of the total), and Beta made 1 trade (*5%* of the total). All of them have met the *5%* threshold, so all the strings are returned in an alphabetically ordered array.

▼ Sample Case 1

Sample Input For Custom Testing

```
STDIN       Function
-----       --------
21      →   customers[] size n = 21
Alpha   →   customers = ["Alpha", "Beta", "Zeta", ..., "Beta"]
Beta
Zeta
Beta
Zeta
Zeta
Epsilon
Beta
Zeta
Beta
Zeta
Beta
Delta
Zeta
Beta
Zeta
Beta
Zeta
Beta
Zeta
Beta
```

Sample Output

```
Beta
Zeta
```

Explanation

Both Beta and Zeta made *9* trades out of *21* (*42.86%* of the total). Alpha, Delta and Epsilon made *1* trade each, which is only *4.76%* of the total number of trades. Only *Beta and Zeta* meet the threshold.