

Algorithmic Trader Coding Test

① 02:59 to test end



# **☆ HackLand Election**



There are n citizens voting in this year's  $HackLand\ election$ . Each voter writes the name of their chosen candidate on a ballot and places it in a ballot box.



The candidate with the highest number of votes wins the election;



if two or more candidates have the same number of votes, then the tied candidates' names are ordered alphabetically and the *last* name wins.



Complete the *electionWinner* function in your editor. It has 1 parameter: an array of strings, *votes*, describing the votes in the ballot box. This function must review these votes and return a string representing the name of the winning candidate.



# **Input Format**

The locked stub code in your editor reads the following input from stdin and passes it to your function:

The first line contains an integer, *n*, denoting the size of the *votes* array.

Each line i of the n subsequent lines (where  $0 \le i < n$ ) of strings contains a citizen's vote in the form of a candidate's name.

#### **Constraints**

•  $1 \le n \le 10^4$ 

#### **Output Format**

Your function must return a *string* denoting the name of the *winner*. This is printed to stdout by the locked stub code in your editor.

### Sample Input 1

10

Alex

Michael

Harry

Dave

Michael

Victor

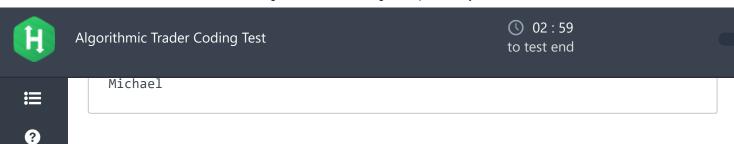
Harry

Alex

Mary

Mary

1



## **Explanation 1**

votes = {"Alex", "Michael", "Harry", "Dave", "Michael", "Victor", "Harry", "Alex", "Mary", "Mary"} Alex, Harry, Michael, and Mary are all tied for the highest number of votes. Because Michael is alphabetically last, we return his name as the winner.

# Sample Input 2

3 10 Victor

Ryan

Veronica

Dave

Maria

Maria

Farah

Farah

Ryan

Veronica

# Sample Output 2

Veronica

#### **Explanation 2**

votes = {"Victor", "Veronica", "Ryan", "Dave", "Maria", "Farah", "Farah", "Ryan",
"Veronica"}

Veronica, Ryan, Maria, and Farah are all tied for the highest number of votes. Because Veronica is alphabetically last, we return her name as the winner.

#### YOUR ANSWER

We recommend you take a quick tour of our editor before you proceed. The timer will pause up to 90 seconds for the tour.

Start tour

X

