

# 911. Online Election

Solved ●

Medium  Topics 

You are given two integer arrays `persons` and `times`. In an election, the  $i^{\text{th}}$  vote was cast for `persons[i]` at time `times[i]`.

For each query at a time  $t$ , find the person that was leading the election at time  $t$ . Votes cast at time  $t$  will count towards our query. In the case of a tie, the most recent vote (among tied candidates) wins.

Implement the `TopVotedCandidate` class:

- `TopVotedCandidate(int[] persons, int[] times)` Initializes the object with the `persons` and `times` arrays.
- `int q(int t)` Returns the number of the person that was leading the election at time  $t$  according to the mentioned rules.

## Example 1:

### Input

```
["TopVotedCandidate", "q", "q", "q", "q", "q", "q"]  
[[[0, 1, 1, 0, 0, 1, 0], [0, 5, 10, 15, 20, 25, 30]], [3], [12], [25], [15], [24], [8]]
```

### Output

```
[null, 0, 1, 1, 0, 0, 1]
```

### Explanation

```
TopVotedCandidate topVotedCandidate = new TopVotedCandidate([0, 1, 1, 0, 0, 1, 0], [0, 5, 10, 15, 20, 25, 30]);  
topVotedCandidate.q(3); // return 0, At time 3, the votes are [0], and 0 is leading.  
topVotedCandidate.q(12); // return 1, At time 12, the votes are [0,1,1], and 1 is leading.  
topVotedCandidate.q(25); // return 1, At time 25, the votes are [0,1,1,0,0,1], and 1 is leading (as ties go to the most recent vote.)  
topVotedCandidate.q(15); // return 0  
topVotedCandidate.q(24); // return 0  
topVotedCandidate.q(8); // return 1
```

## Constraints:

- $1 \leq \text{persons.length} \leq 5000$
- $\text{times.length} == \text{persons.length}$
- $0 \leq \text{persons}[i] < \text{persons.length}$
- $0 \leq \text{times}[i] \leq 10^9$
- `times` is sorted in a strictly increasing order.
- $\text{times}[0] \leq t \leq 10^9$
- At most  $10^4$  calls will be made to `q`.

Seen this question in a real interview before? 1/5

Yes No

Accepted 73.592/140.5K | Acceptance Rate 52.4%

Topics





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