

Explore ^{Day 6}

Problems

Mock ^{new}

Contest

Articles

Discuss

Store



Description

Solution

Submissi...

Discuss (2...

i Ruby

1409. Queries on a Permutation With Key

Medium

88

172

Add to List

Share

Given the array `queries` of positive integers between 1 and `m`, you have to process all `queries[i]` (from `i=0` to `i=queries.length-1`) according to the following rules:

- In the beginning, you have the permutation $P=[1,2,3,\dots,m]$.
- For the current `i`, find the position of `queries[i]` in the permutation `P` (**indexing from 0**) and then move this at the beginning of the permutation `P`. Notice that the position of `queries[i]` in `P` is the result for `queries[i]`.

Return an array containing the result for the given `queries`.

Example 1:

Input: `queries = [3,1,2,1]`, `m = 5`

Output: `[2,1,2,1]`

Explanation: The queries are processed as follow:

For `i=0`: `queries[i]=3`, `P=[1,2,3,4,5]`, position of 3 in `P` is 2, then we move 3 to the beginning of `P` resulting in `P=[3,1,2,4,5]`.

For `i=1`: `queries[i]=1`, `P=[3,1,2,4,5]`, position of 1 in `P` is 1, then we move 1 to the beginning of `P` resulting in `P=[1,3,2,4,5]`.

For `i=2`: `queries[i]=2`, `P=[1,3,2,4,5]`, position of 2 in `P` is 2, then we move 2 to the beginning of `P` resulting in `P=[2,1,3,4,5]`.

For `i=3`: `queries[i]=1`, `P=[2,1,3,4,5]`, position

```
1 # @param {Integer[]} qu
2 # @param {Integer} m
3 # @return {Integer[]}
4 def process_queries(quer
5
6 end
```

Problems

Pick One

< Prev

1409/1505

Next >

Console ▾

Contribute *i*