3237. Alt and Tab Simulation Premium

Medium | Topics | Hint

There are `n` windows open numbered from `1` to `n`, we want to simulate using alt + tab to navigate between the windows.

You are given an array `windows` which contains the initial order of the windows (the first element is at the top and the last one is at the bottom).

You are also given an array `queries` where for each query, the window `queries[i]` is brought to the top.

Return the final state of the array `windows`.

Example 1:

> **Input:** `windows = [1,2,3], queries = [3,3,2]`
>
> **Output:** `[2,3,1]`
>
> **Explanation:**
>
> Here is the window array after each query:
>
> - Initial order: `[1,2,3]`
> - After the first query: `[3,1,2]`
> - After the second query: `[3,1,2]`
> - After the last query: `[2,3,1]`

Example 2:

> **Input:** `windows = [1,4,2,3], queries = [4,1,3]`
>
> **Output:** `[3,1,4,2]`
>
> **Explanation:**
>
> Here is the window array after each query:
>
> - Initial order: `[1,4,2,3]`
> - After the first query: `[4,1,2,3]`
> - After the second query: `[1,4,2,3]`
> - After the last query: `[3,1,4,2]`

Constraints:

- `1 <= n == windows.length <= 10^5`
- `windows` is a permutation of `[1, n]`.
- `1 <= queries.length <= 10^5`
- `1 <= queries[i] <= n`

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

Yes | No

Accepted 690 | Submissions 890 | Acceptance Rate 77.5%

Topics

Array | Hash Table | Simulation

Hint 1

Let's answer the queries offline.

Hint 2

Start from the **last** query until you reach the first query.

Hint 3

Each time, append the value of that query to a `ans` array if it wasn't already appended.

Hint 4

Then start from the **beginning** of `windows` and append to `ans` array if it wasn't already appended.

Discussion (1)