

1535. Find the Winner of an Array Game

Description

Given an integer array `arr` of **distinct** integers and an integer `k`.

A game will be played between the first two elements of the array (i.e. `arr[0]` and `arr[1]`). In each round of the game, we compare `arr[0]` with `arr[1]`, the larger integer wins and remains at position `0`, and the smaller integer moves to the end of the array. The game ends when an integer wins `k` consecutive rounds.

Return *the integer which will win the game*.

It is **guaranteed** that there will be a winner of the game.

Example 1:

```
Input: arr = [2,1,3,5,4,6,7], k = 2
Output: 5
Explanation: Let's see the rounds of the game:
Round |      arr      | winner | win_count
  1    | [2,1,3,5,4,6,7] | 2      | 1
  2    | [2,3,5,4,6,7,1] | 3      | 1
  3    | [3,5,4,6,7,1,2] | 5      | 1
  4    | [5,4,6,7,1,2,3] | 5      | 2
So we can see that 4 rounds will be played and 5 is the winner because it wins 2 consecutive games.
```

Example 2:

```
Input: arr = [3,2,1], k = 10
Output: 3
Explanation: 3 will win the first 10 rounds consecutively.
```

Constraints:

- `2 <= arr.length <= 105`
- `1 <= arr[i] <= 106`
- `arr` contains **distinct** integers.
- `1 <= k <= 109`

