

5468. Kth Missing Positive Number

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Given an array `arr` of positive integers sorted in a **strictly increasing order**, and an integer `k`.

Find the k^{th} positive integer that is missing from this array.

Example 1:

Input: `arr = [2,3,4,7,11]`, `k = 5`

Output: 9

Explanation: The missing positive integers are [1,5,6,8,

User Accepted: 4332

User Tried: 4788

Total Accepted: 4435

Total Submissions: 8607

Difficulty: Easy

Example 2:

Input: `arr = [1,2,3,4]`, `k = 2`

Output: 6

Explanation: The missing positive integers are [5,6,7,...]. The 2nd missing positive integer is 6.

Constraints:

- $1 \leq \text{arr.length} \leq 1000$
- $1 \leq \text{arr}[i] \leq 1000$
- $1 \leq k \leq 1000$
- $\text{arr}[i] < \text{arr}[j]$ for $1 \leq i < j \leq \text{arr.length}$

JavaScript



```
1 /**
2  * @param {number[]} arr
3  * @param {number} k
4  * @return {number}
5  */
6 const findKthPositive = (arr, k) => {
7     let end = arr[arr.length - 1];
8     let res = [];
9     for (let i = 1; i <= end + k; i++) {
10         if (arr.indexOf(i) == -1) {
11             res.push(i);
```

```
12     }
13     if (res.length == k) break;
14 }
15 if (res.length == 0) return end + k;
16 return res[res.length - 1];
17 };
```

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