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1539. 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  $k^{\text{th}}$  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 `[1,5,6,8,9,10,12,13,...]`. The 5<sup>th</sup> missing positive integer is `9`.

Example 2:

Input: `arr = [1,2,3,4]`, `k = 2`  
Output: `6`  
Explanation: The missing positive integers are `[5,6,7,...]`. The 2<sup>nd</sup> missing positive integer is `6`.

Constraints:

- `1 <= arr.length <= 1000`
- `1 <= arr[i] <= 1000`
- `1 <= k <= 1000`
- `arr[i] < arr[j]` for `1 <= i < j <= arr.length`

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1class Solution {  
2public int findKthPositive(int[] arr, int k) {  
3  
4}  
5}

Problems

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https://leetcode.com/problems/kth-missing-positive-number/1/1