Kth Missing Positive Number

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

Return *the* kth *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 5th 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 2nd missing positive integer is 6.

Constraints:

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