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

*Find 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