146.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.

AIM: To sort in a strictly increasing order

PROGRAM:

```
def findKthPositive(arr, k):

    n = len(arr)

    i = 0

    count = 0

    while i < n:

        num = arr[i]

        if count + (num - (i + 1)) >= k:

            return count + k

        count += num - (i + 1)

        i += 1

    return arr[-1] + (k - count)

if __name__ == "__main__":

    arr1 = [2, 3, 4, 7, 11]

    k1 = 5

    print("Output for Example 1:", findKthPositive(arr1, k1))
```

OUTPUT:

```
Output for Example 1: 9
```

TIME COMPLEXITY: O(n)