

135) Finding the kth missing element in a list

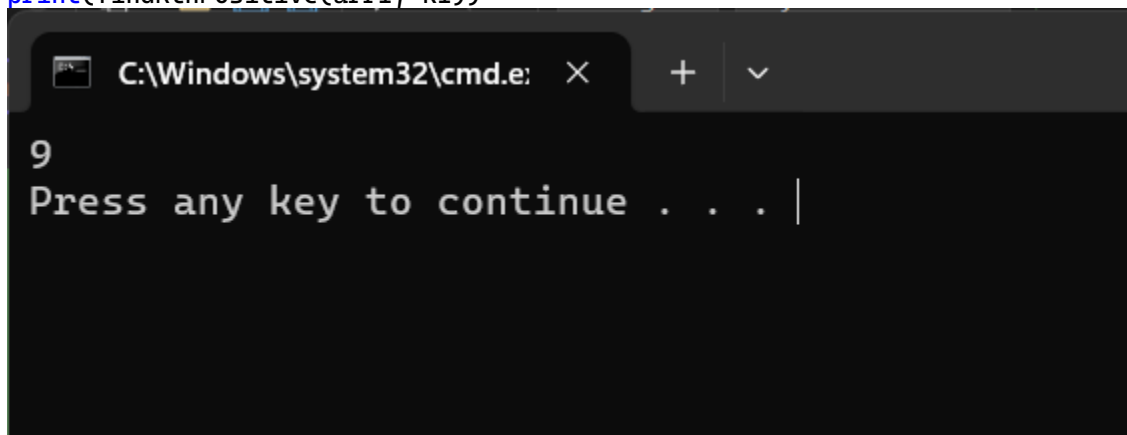
CODE:

```
def findKthPositive(arr, k):
    missing_count = 0
    current_num = 1

    for num in arr:
        while current_num < num:
            missing_count += 1
            if missing_count == k:
                return current_num
            current_num += 1
        current_num = num + 1

    return current_num + k - missing_count

# Example usage
arr1 = [2, 3, 4, 7, 11]
k1 = 5
print(findKthPositive(arr1, k1))
```

A screenshot of a Windows command prompt window. The title bar shows the path 'C:\Windows\system32\cmd.e' with a close button. The window has a dark background. The output of the Python code is displayed in white text: the number '9' on the first line, followed by the prompt 'Press any key to continue . . . |' on the second line, where the cursor is positioned at the end of the line.

TIME COMPLEXITY : $O(n)$