



Total count

Difficulty: **Easy** Accuracy: **48.74%** Submissions: **47K+** Points: **2**

You are given an array **arr[]** of positive integers and a threshold value **k**. For each element in the array, divide it into the **minimum** number of small integers such that each divided integer is less than or equal to **k**. Compute the total number of these integer across all elements of the array.

Examples:

Input: k = 3, arr[] = [5, 8, 10, 13]

Output: 14

Explanation: Each number can be expressed as sum of different numbers less than or equal to k as 5 (3 + 2), 8 (3 + 3 + 2), 10 (3 + 3 + 3 + 1), 13 (3 + 3 + 3 + 3 + 1). So, the sum of count of each element is (2+3+4+5)=14.

Input: k = 4, arr[] = [10, 2, 3, 4, 7]

Output: 8

Explanation: Each number can be expressed as sum of different numbers less than or equal to k as 10 (4 + 4 + 2), 2 (2), 3 (3), 4 (4) and 7 (4 + 3). So, the sum of count of each element is (3 + 1 + 1 + 1 + 2) = 8.

Expected Time Complexity: O(n)

Expected Auxiliary Space: O(1)

Constraints:

$$1 \leq \text{arr.size()} \leq 10^5$$

$$0 \leq \text{arr}[i] \leq 10^5$$

$$1 \leq k \leq 10^5$$

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Java (1.8) Average Time: 20m Start Timer

```

1- //{ Driver Code Starts
2- // Initial Template for Java
3- import java.io.*;
4- import java.lang.*;
5- import java.util.*;
6-
7-
8- // } Driver Code Ends
9- // User function Template for Java
10-
11- // User function Template for Java
12-
13- class Solution {
14-     int totalcount(int k, int[] arr) {
15-         int totalcount = 0;
16-
17-         // Iterate over each element in the array
18-         for (int num : arr) {
19-             // Calculate the number of parts needed for the current element
20-             totalcount += (num + k - 1) / k; // This is equivalent to ceil(num / k)
21-         }
22-
23-         return totalcount;
24-     }
25- }
26-
27-
28- //{ Driver Code Starts.
29-
30-
31- class GFG {

```

Custom Input Compile & Run Submit