**Total count**

[array](http://www.practice.geeksforgeeks.org/tag-page.php?tag=array&isCmp=0)

[Zoho](http://www.practice.geeksforgeeks.org/tag-page.php?tag=Zoho&isCmp=1)

Given an array and a threshold value k where k is used to divide each element of the array. Find the total number of divisions we get after dividing each element of the array by k.   
for example:  
A[ ] = 5 8 10 13 6 2 and k is 3  
Output will be 17   
  
**Explanation:**  
**Number**    **Parts**         **counts**  
5               {3,2}              2  
8              {3,3,2}            3  
10           {3,3,3,1}          4  
13          {3,3,3,3,1}        5  
6                {3,3}             2  
2                  {2}              1  
  
The result thus will be 2+3+4+5+2+1 = 17

**Input:**

The first line of input contains a single integer **T** denoting the number of test cases. Then**T** test cases follow. Each test case consist of two lines. The first line of each test case consists of an integer **N** and threshold value **k**, where **N** is the size of array.  
The second line of each test case contains**N** space separated integers denoting array elements.

**Output:**

Corresponding to each test case, in a new line, print the total count.

**Constraints:**

1 ≤ T ≤ 100  
1 ≤ N ≤ 500  
1 ≤ A[i] ≤ 1000  
1 ≤ Threshold value(k) ≤ 20

**Example:**

**Input**  
1  
6 3  
5 8 10 13 6 2

**Output**  
17

\*\*For More Examples Use Expected Output\*\*

<http://www.practice.geeksforgeeks.org/problem-page.php?pid=1124>

#include <iostream>

#include <stdio.h>

#include <math.h>

#include <vector>

#define ll long long int

using namespace std;

int main() {

  int t;

  scanf("%d", &t);

  while(t--) {

    int n, k;

    scanf("%d %d", &n, &k);

    int arr[n];

    for(int i =0; i<n; i++) {

      scanf("%d", &arr[i]);

    }

    int ans =0 ;

    for(int i =0; i<n; i++) {

       if(arr[i] % k==0) {

          ans += arr[i] / k;

       }else {

          ans += arr[i] / k +1;

        }

    }

    cout << ans << endl;

  }

 return 0;

}