



# Lisa's Workbook

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Problem

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Lisa just got a new math workbook. A workbook contains exercise problems, grouped into chapters.

- There are  $n$  chapters in Lisa's workbook, numbered from  $1$  to  $n$ .
- The  $i$ -th chapter has  $t_i$  problems, numbered from  $1$  to  $t_i$ .
- Each page can hold up to  $k$  problems. There are no empty pages or unnecessary spaces, so only the last page of a chapter may contain fewer than  $k$  problems.
- Each new chapter starts on a new page, so a page *will never* contain problems from more than one chapter.
- The page number indexing starts at  $1$ .

Lisa believes a problem to be *special* if its index (within a chapter) is the same as the page number where it's located. Given the details for Lisa's workbook, can you count its number of *special* problems?

**Note:** See the diagram in the *Explanation* section for more details.

## Input Format

The first line contains two integers  $n$  and  $k$  — the number of chapters and the maximum number of problems per page respectively.  
The second line contains  $n$  integers  $t_1, t_2, \dots, t_n$ , where  $t_i$  denotes the number of problems in the  $i$ -th chapter.

## Constraints

- $1 \leq n, k, t_i \leq 100$

## Output Format

Print the number of *special* problems in Lisa's workbook.

## Sample Input

```
5 3
4 2 6 1 10
```

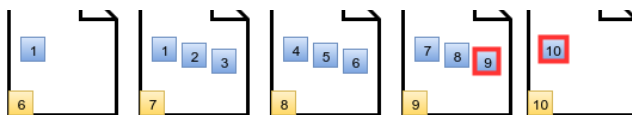
## Sample Output

```
4
```

## Explanation

The diagram below depicts Lisa's workbook with  $n = 5$  chapters and a maximum of  $k = 3$  problems per page. Special problems are outlined in red, and page numbers are in yellow squares.





There are 4 special problems and thus we print the number 4 on a new line.

f t in

Submissions: 16482

Max Score: 25

Difficulty: Easy

Rate This Challenge:

☆☆☆☆

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Current Buffer (saved locally, editable)

C#



```

1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4  using System.Text;
5
6  class Solution {
7      static void Main(String[] args) {
8          /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be
9             named Solution */
10
11             string[] input = Console.ReadLine().Split(' ');
12             int n = int.Parse(input[0]);
13             int k = int.Parse(input[1]);
14
15             int[] ppcap = Array.ConvertAll(Console.ReadLine().Split(' '), e => int.Parse(e));
16
17             //int n = 5, k = 3;
18             //int[] ppcap = { 4, 2, 6, 1, 10 };
19
20             List<string> paginas = new List<string>();
21
22             for (int i = 0; i < ppcap.Length; i++)
23             {
24                 int prob_cap = ppcap[i];
25
26                 string concat = "";
27                 for (int j = 1; j <= prob_cap; j++)
28                 {
29                     if (j%k == 0)
30                     {
31                         concat += j;
32                         paginas.Add(concat);
33                         concat = "";
34                     }
35                     else
36                     {
37                         concat += j + ",";
38                     }
39                 }
40                 if (concat.Length > 0)
41                 {
42                     paginas.Add(concat);
43                 }
44             }
45
46             //foreach (string s in paginas)
47             //{
48             //    Console.WriteLine(s);
49             //}
50             int ans = 0;
51             for (int indicePagina = 0; indicePagina < paginas.Count; indicePagina++)
52             {
53                 string[] cap = paginas[indicePagina].Split(',');
54                 if (cap.Contains((indicePagina + 1).ToString()))
55                 {
56                     ans++;
57                 }
58             }
59         }
60     }

```

```
60  
61     Console.WriteLine(ans);  
62  
63 }  
64 }
```

Line: 4 Col: 19

 [Upload Code as File](#)☐ Test against custom input

Run Code

Submit Code

### Congrats, you solved this challenge!

✓ Test Case #0

✓ Test Case #3

✓ Test Case #6

✓ Test Case #9

✓ Test Case #1

✓ Test Case #4

✓ Test Case #7

✓ Test Case #10

✓ Test Case #2

✓ Test Case #5

✓ Test Case #8

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