Mental Disorders

The DSA professor has been diagnosed with Obsessive Compulsive Disorder. One of his compulsive behaviours is that he likes to classify the food he eats depending on its shape and size, stacking the items which are similar enough. Due to his disorder, he can only eat the stacks that have an even number of elements, so he needs a program that reads the number of elements of each stack and tells him how many stacks he can eat.

Input

The first line contains the number of test cases that the program has to pass.

Each test case has two lines. The first one contains the number of stacks that the DSA professor has made (with a maximum of 10.000), and the second one contains the number of elements of each stack (a number between 0 and 99.999).

Output

The output of each test case is an independent line with the number of stacks that he can eat.

Sample input

```
1
10
1 2 3 4 5 6 7 8 9 10
```

Sample output

```
5
```

Notes

This exercise must be understood in the context of the *Data Structures and Algorithms* course, FDI-UCM 2016/2017 (prof. Gonzalo Méndez). Therefore, the only valid solutions are those that use the concepts studied in this course. Additional remarks may be provided in class.