

[All Tracks](#) > [Basic Programming](#) > [Input/Output](#) > > Problem

IT'S MAGIC!



BOOKMARK

Attempted by: **5704** / Accuracy: **78%** / Maximum Points: **20** / ★★★★★☆ 132 Votes /

🔗 Implementation

PROBLEM

EDITORIAL

MY SUBMISSIONS

ANALYTICS

DISCUSSIONS

NEW

Sussutu is a world-renowned magician. And recently, he was blessed with the power to remove EXACTLY ONE element from an array.

Given, an array A (index starting from 0) with N elements. Now, Sussutu CAN remove only that element which makes the sum of ALL the remaining elements *exactly divisible by 7*.

Throughout his life, Sussutu was so busy with magic that he could never get along with maths. Your task is to help Sussutu find the *first array index of the smallest element* he CAN remove.

Input:

The first line contains a single integer N .

Next line contains N space separated integers A_k , $0 \leq k < N$.

Output:

Print a single line containing *one integer*, the first array index of the smallest element he CAN remove, and *-1* if there is no such element that he can remove!

Constraints:

$$1 \leq N \leq 10^5$$

$$0 \leq A_k \leq 10^9$$

SAMPLE INPUT



```
5
14 7 8 2 4
```

SAMPLE OUTPUT



1

Explanation

Both 14 and 7 are valid answers, but since 7 is the smallest, the required *array index* is 1.

Time Limit: 1.0 sec(s) for each input file.

Memory Limit: 256 MB

Source Limit: 1024 KB

BEST SUBMISSION



SIMILAR PROBLEMS



CONTRIBUTORS



