# A. IQ test

Bob is preparing to pass IQ test. The most frequent task in this test is to find out which one of the given $n$ numbers differs from the others. Bob observed that one number usually differs from the others in evenness. Help Bob — to check his answers, he needs a program that among the given $n$ numbers finds one that is different in evenness.

## Input

The first line contains integer $n$ $(3 \le n \le 100)$ — amount of numbers in the task. The second line contains $n$ space-separated natural numbers, not exceeding 100. It is guaranteed, that exactly one of these numbers differs from the others in evenness.

## Output

Output index of number that differs from the others in evenness. Numbers are numbered from 1 in the input order.

## Examples

| input |
| --- |
| 5 |
| 2 4 7 8 10 |

| output |
| --- |
| 3 |

| input |
| --- |
| 4 |
| 1 2 1 1 |

| output |
| --- |
| 2 |