Magical triplets X30226_en

Three integers form a *magic triplet* if they are an odd number between two even numbers, or an even number between two odd numbers. For instance, the triplet `1 2 3`, the triplet `2 3 4`, and the triplet `8 1 96` are magical triplets
Write a program that given a series of sequences of integers, writes the position (counting from 1) of the first sequence containing at least 3 magic triplets.
Note that an integer may belong to more than one triplet. For instance, the sequence `4 3 4 1` contains two magic triplets: `4 3 4` and `3 4 1`.
Exam score: 3.500000 **Automatic part:** 50.000000%

Input

A series of sequences of integers. Each sequence is ended with zero, and contains at least two integers (plus the 0). The zero only marks the end of the sequence and is not considered part of any magical triplet.

Output

The position of the first sequence (numbered from 1 upwards) containing at least 3 magical triplets, or `none` if no sequence has this property.

Sample input 1

```
1 2 3 4 5 6 0
1 2 3 5 5 6 2 3 0
1 1 1 0
```

Sample output 1

```
1
```

Sample input 2

```
1 2 3 4 6 0
1 2 2 3 5 5 6 3 0
1 2 1 2 1 0
```

Sample output 2

```
3
```

Sample input 3

```
2 4 6 8 0
1 2 3 5 5 6 0
1 1 1 0
```

Sample output 3

```
none
```

Observation

WARNING: Using type `vector` or any other mass storage will render the exercise INVALID.

Problem information

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