
Position of the complementary**X74275_en**

Two non-negative integers n and m are complementary if $(n + m) \% 10$ equals 0. Write a program that, given a non-negative integer n and a sequence of non-negative integers that ends with -1, outputs the first element in the sequence that is complementary to n , along with its position. If that element does not exist, the program outputs an informative message.

Exam score: 3.50 **Automatic part:** 40.00%

Input

The input starts with a non-negative integer n followed by a sequence of non-negative integers that ends with -1.

Output

The output is the first element in the sequence that is complementary to n , along with its position (if it exists), or the string "No existe" (otherwise). The first element in the sequence is at position 1, the second is at position 2, and so on.

Sample input 1

```
11
-1
```

Sample output 1

```
No existe
```

Sample input 2

```
11
3 5 6 0 -1
```

Sample output 2

```
No existe
```

Sample input 3

```
20
30 10 5 2 -1
```

Sample output 3

```
30: 1
```

Sample input 4

```
15
6 3 5 10 40 -1
```

Sample output 4

```
5: 3
```

Sample input 5

```
17
10 4 2 12 23 -1
```

Sample output 5

```
23: 5
```

Sample input 6

```
10
-1
```

Sample output 6

```
No existe
```

Problem information

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Generation : 2021-04-12 13:03:06

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