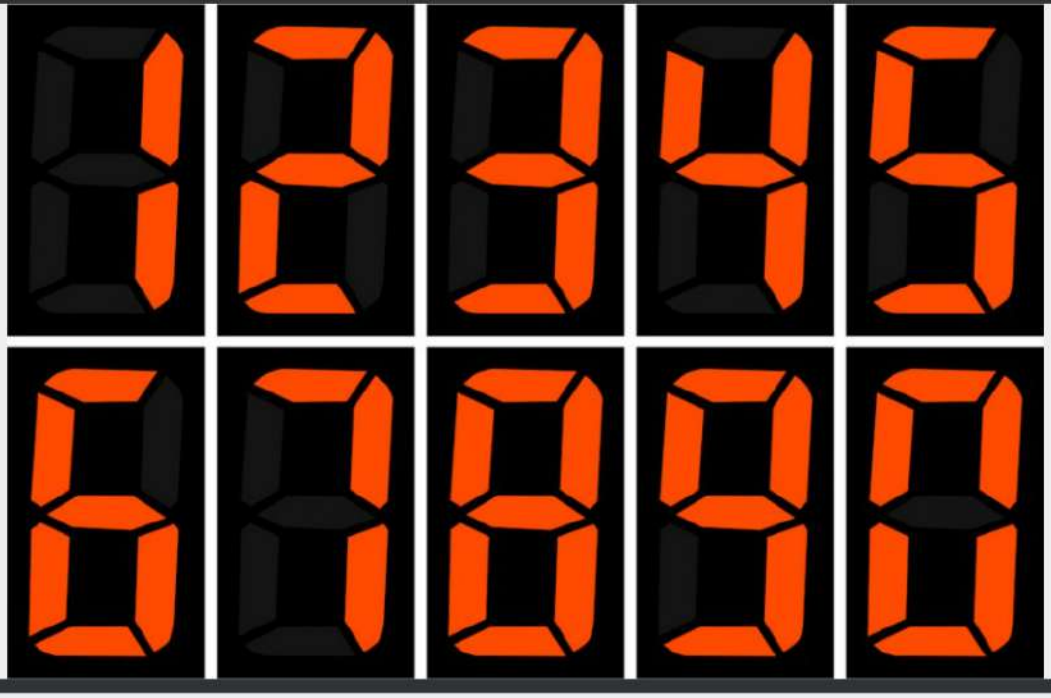

Texte de la question en : Anglais

Sample input / output files

Basketball - Equality on the scoreboard

After you finish cultivating your garden, you return to the basketball court and see a crowd gathered around the scoreboard. The scoreboard displays a three-digit number.

You are told a local legend that claims that the day the sum of the first two numbers equals the third number, an era of prosperity will begin for the garden.

Each number is represented by seven segments, which can be turned on or off (as in the picture). You *must* perform the following operation once: you must turn off one (and only one) segment that is currently on, *or* turn on exactly one segment that is currently off.

Can you give the numbers displayed by the table after this operation, which make the 3rd digit equal to the sum of the first two, or say that it is impossible? If several solutions are valid, any one of them will be accepted.

Data

Input

Line 1 : three numbers between 0 and 9, separated by a space.

Output

Line 1: "Impossible" if no solution exists, or three numbers between 0 and 9 separated by a space, if you have found a valid solution. These three numbers must be obtainable from the three input numbers from a single operation (described above), and be such that the third number is the sum of the first two.

Example

For the input :

```
3 4 1
```

One answer is:

```
3 4 7
```

Indeed, we light a segment in 1 to change it into 7. The solution is valid, since 3+4=7.

For the input :

```
1 9 6
```

One answer is:

```
1 5 6
```

Here, we turn off a segment of the 9 to change it to 5.