

Magic Square

Input File: magic.txt

A magic square is a 3x3 square where the numbers 1-9 fill up each tile, and each row, column, and diagonal adds up to 15. The table below shows a magic square.

2	9	4
7	5	3
6	1	8

As you can see, if you take any three numbers that make up a row, column, or diagonal, the sum is always 15. Unfortunately, the pattern shown above is the only way to make it perfectly. Your friend is trying to make these magic squares, but most of the time, a few of the rows don't perfectly add up to 15. Your task is to count up how many rows, columns, and diagonals that need to be fixed before it can be a magic square.

Input:

The first line contains an integer N, representing the number of sets of data. The next N sets of data each contain three lines with three numbers on each line.

Output:

Output the number of rows, columns, and diagonals that don't add up to 15 for each set of data.

Example Input:

```
2
5 6 4
7 8 9
3 1 2
4 1 7
3 9 6
8 5 2
```

Example Output:

```
2
3
```