



Magical Square 1

 by [matfah](#)

Problem

Submissions

Discussions

In between waiting for Dory to come home and searching for shells to leave as bread crumbs for Dory, Charlie and Jenny take turns creating normal magic squares (what else do you think they were doing for the past year?). A square is an $n \times n$ grid of numbers. A square is magic if the sum of every row, column, and diagonal is the same. A square is normal if all the integers from 1 to n^2 appear in the square exactly once. Can you help Dory's parents classify squares?

<https://drive.google.com/open?id=0BxxolsFkwnDqdXA5UTRCYTRiM0k>

Input Format

The first line of the input will contain a single integer n . After the first line will be n lines, each containing n integers separated by spaces.

Constraints

$1 \leq n \leq 50$

Output Format

NORMAL SQUARE, if the square is only normal; MAGIC SQUARE, if the square is only magical; NORMAL MAGIC SQUARE, if the square is both normal and magical; SQUARE, if the square is neither normal nor magical.

Sample Input 0

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

Sample Output 0

```
NORMAL MAGIC SQUARE
```

Sample Input 1

```
3
23 28 21
22 24 26
27 20 25
```

Sample Output 1

```
MAGIC SQUARE
```

Sample Input 2

```
2
1 3
2 4
```

Sample Output 2

NORMAL SQUARE

[f](#) [t](#) [in](#)

Submissions: 36

Max Score: 1

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