

PRACTICE

COMPETE

TE JOBS

LEADERBOARD

Q

Search



rberg 💙

All Contests > Pro Com 3 > Magical Square 1

Magical Square 1



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 x 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 n2 appear in the square exactly once. Can you help Dory' 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 <= n <= 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

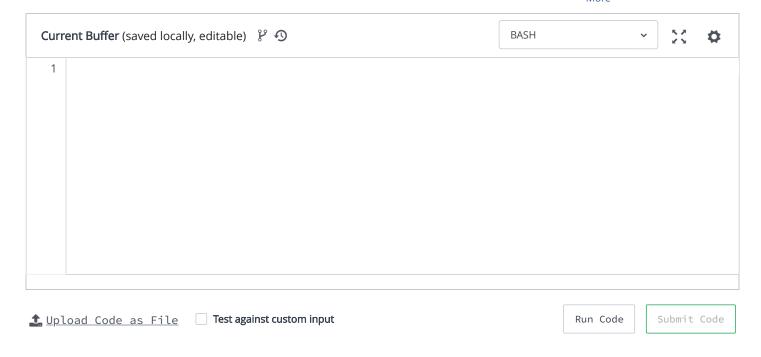
MAGIC SQUARE

Sa	m	nle	e I	n	ni	ut	2
		יוש			v	uı	_

Sample Output 2

NORMAL SQUARE

Submissions: 36 Max Score: 1 Rate This Challenge: $\triangle \triangle \triangle \triangle \triangle \triangle$ More



Contest Calendar | Interview Prep | Blog | Scoring | Environment | FAQ | About Us | Support | Careers | Terms Of Service | Privacy Policy | Request a Feature