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The Virtual Learning Environment for Computer Programming

Many in line P25174_en

Write a program that reads cubes $n \times n \times n$ of integer numbers and computes how many lines of size *m* contains, for any *m* between 2 and *n*. Here, a line is a sequence of identical integer numbers adjacents in the same direction. The considered directions are vertical, horizontal, of depth, (in total, 26 senses, in 13 directions).

Input

Input consists of a sequence of cube descriptions separated by an empty line. Each description starts with a natural $n \ge 2$. n descriptions of each plane of the cube follow, separated by an empty line, each plane has n rows with n integer numbers each one.

Output

1 1 1 1 1 1

Sample input

for each cube, print how many lines of size *m* contains, for any *m* between 2 and *n*. Follow the format of the examples. Separate the different outputs with an empty line.

Sample output

Sumple mput	Sumple Sutput
2	Ratlles de mida 2: 12
1 1	
1 1	Ratlles de mida 2: 3
4 4	Ratlles de mida 2: 158
4 4	Ratlles de mida 3: 49
2	
1 2	
3 1	

Author: Salvador Roura Translator: Carlos Molina

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Problem information

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