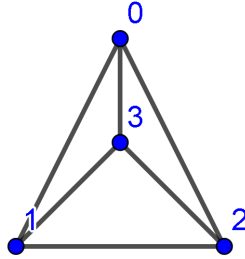# Tetrahedrons in the country

Today we continue examine topology of the ancient country GRAPH. It was said that any four cities form a **tetrahedron** (or 4-vertex [clique](#)) if from every city of the tetrahedron there is a road to another tetrahedron city. In the picture below is an example of tetrahedron.

Theoretical note: all test cases are [Erdős–Rényi](#) connected low density graphs.

Your task is to find the number of tetrahedrons in the country.

Input

The first line of input will contain one integer number $4 \leq N \leq 900$, number of cities in GRAPH. Follow N lines. Each line represents cities (direct neighbors) connected to the city number i (cities numbering is zero based) by one road.

Output

Print number of tetrahedrons in the GRAPH.

Example

Input:
4

```
1 2 3
0 2 3
0 1 3
0 1 2
```

Output:

1