

Graph Contest 2 P3 - Trees

Time limit: 1.0s **Memory limit:** 16M

Given: an undirected graph.

How many edges must you remove to make it a tree? (Or a forest of trees?)

Input Specification

$N \leq 1\,000$, the number of vertices.

An adjacency matrix, N rows with N numbers (0 or 1).

The matrix will be symmetrical (it is undirected!).

Output Specification

The minimum number of edges you have to remove.

Sample Input

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

Sample Output

```
1
```