Graph Contest 1 P2 - Shortest Path

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

Given a graph as an adjacency matrix, find the shortest path from the first to the last vertex.

Input Specification

$N \leq 100$, the number of vertices.
The adjacency matrix - N rows of N numbers.
The first row represents the first vertex, and similarly the last row represents the last vertex.

Output Specification

The distance from the first to the last vertex.

Sample Input

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

Sample Output

```
2
```