Connected component search

Cost: 8 | Solved: 96

Memory limit: 256 MBs

Time limit: 1 s

Input: input.txt

Output: output.txt

Task:

You are given an undirected unweighted graph and one of its vertexes.

Count the number of its connected components.

Input:

The first line contains a natural ***n*** (1 ≤ ***n*** ≤ 100) – the quantity of the graph's vertexes.

The next ***n*** lines contain the adjacency matrix of the graph (0 means no edge, 1 means the edge exists).

Output:

The first line should contain the number of connected components.

The next each line should contain the length of a connected component, then the component itself.

Example:

Input	Output

4 0 1 1 0 1 0 0 0 1 0 0 0 0 0 0 0	2 3 1 2 3 1 4