From adjacency matrix to adjacency list

Cost: 4 | Solved: 139

Memory limit: 256 MBs

Time limit: 1 s

Input: input.txt

Output: output.txt

Task:

A graph is given by adjacency matrix.

Output its representation in the form of adjacency list.

Input:

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

The next ***n*** lines contain ***n*** numbers (adjacency matrix), each is equal to either 0 or 1 (0 means no edge, 1 means the edge exists).

Output:

The adjacency list of the given graph in the format "i: a b c", where "i" is the index of a vertex, "a b c" – indices of adjacent vertexes.

Indices of vertexes and adjacent vertexes should go in ascending order.

Example:

Input	Output

5 0 1 1 1 0 1 0 0 1 1 1 0 0 1 0 1 1 1 0 1 0 1 0 1 0	1: 2 3 4 2: 1 4 5 3: 1 4 4: 1 2 3 5 5: 2 4