From edge list to adjacency list

Cost: 4 | Solved: 125

Memory limit: 256 MBs

Time limit: 1 s

Input: input.txt

Output: output.txt

Task:

A graph is given by its edge list.

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, and a natural ***m*** (1 ≤ ***m*** ≤ ***n****(**n*-1)/2) **–** the quantity of the graph's edges.

The next ***m*** lines contain pairs of numbers **–** indices of vertexes that have an edge between them.

Output:

The adjacency list of the given graph in a 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 7 1 2 1 3 1 4 2 4 2 5 3 4 4 5	1: 2 3 4 2: 1 4 5 3: 1 4 4: 1 2 3 5 5: 2 4