

Generating an Eulerian cycle

Cost: 6 | Solved: 51

Memory limit: 256 MBs		
Time limit: 1 s		
Input: input.txt		
Output: output.txt		
Task:		
You are given a graph with n vertexes.		
You have to find its Eulerian cycle.		
An Eulerian cycle is a closed path of a graph which goes through every <u>edge</u> only once.		
Input:		
The first line contains a natural \mathbf{n} (1 $\leq \mathbf{n} \leq$ 100) – the quantity of the graph's vertexes.		
The next \boldsymbol{n} lines contain the adjacency matrix of the graph.		
Output:		
An Eulerian cycle of the graph. Output it, writing each vertex you visit consecutively.		
If it's impossible to output an Eulerian cycle, write -1.		
All vertexes should be output on the same line.		
Example:		
Input	Output	

5	
01111	
10111	25435142312
11011	
11101	
11110	