

Dijkstra's algorithm

Cost: 6 | Solved: 92

Time limit: 1 s

Memory limit: 256 MBs

Input: input.txt		
Output: output.txt		
Task:		
You are given a directed weighted graph.		
Find the shortest path from vertex $m{s}$ to vertex $m{f}$, using Dijkstra's algorithm.		
Input:		
The first line contains three naturals n , s and f ($1 \le n \le 100$, $1 \le s$, $f \le n$), where n is the quantity of the graphs' vertexes, s is the initial vertex and f is the final.		
The next n lines contain n numbers not greater than 100 (the adjacency matrix), where -1 means no edge, any non-negative integer – the existence of an edge with such weight.		
Output:		
The shortest path or -1 if it's impossible to reach the final vertex.		
Example:		
Input	Output	

3 2 1	
011	2
401	3
210	