

Programming assignment 13

Dijkstra

Input (Standard input)

The number of vertex N is given ($1 \leq N \leq 5,000$) in the first line.

Next two lines are given.

First line of the two lines, index of a vertex(a) and

the number of edges E of the vertex(a) are given ($1 \leq E \leq N$).

In second line, destination vertex(b) from vertex(a) of First line and the weight W of the edge from vertex(a) to vertex(b) are given, respectively.

Output (Standard output)

Print the most large weight all shortest-path weight of vertex 1.

[Example]

Input	Output
5 1 2 2 10 3 5 2 2 4 1 3 2 3 3 2 3 4 9 5 2 4 1 5 4 5 2 1 7 3 6	9

Description

1. File name must be Dijkstra.cpp
2. Make a comment of your student ID, name and class in the first line of the source code. ex) 2014601028_Honggildong_A
3. Please keep the source code that you have submitted for some unexpected accident.