

## Medium – A road trip

	1	2	3	4	5	6	7	8	9
1	—	1	2	1	2	3	2	3	4
2	1	—	1	2	1	2	3	2	3
3	2	1	—	3	2	1	4	3	2
4	1	2	3	—	1	2	1	2	3
5	2	1	2	1	—	1	2	1	2
6	3	2	1	2	1	—	3	2	1
7	2	3	4	1	2	3	—	1	2
8	3	2	3	2	1	2	1	—	1
9	4	3	2	3	2	1	2	1	—

You are given a matrix of distances between 9 cities; the answer is a **comma-separated** list of the **shortest** possible route to visit **each** city and returns to the origin one.

**Start with the city No 1.**

Ex. 1,2,3,4,5,6,7,8,9,1

Challenge Points : 150 pts