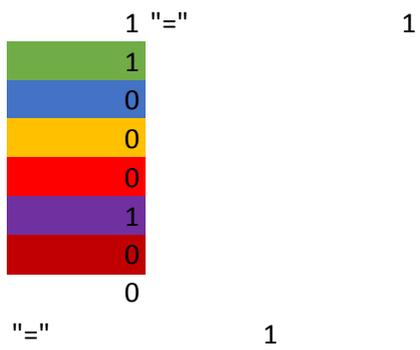


x_{ij} = edge V_i - V_j included in the shortest path

	V1	V2	V3	V4	V5	V6	V7	V8
V1	0	1	0	0	0	0	0	0
V2	0	0	0	0	0	0	1	0
V3	0	0	0	0	0	0	0	0
V4	0	0	0	0	0	0	0	0
V5	0	0	0	0	0	0	0	0
V6	0	0	0	0	0	0	0	1
V7	0	0	0	0	0	0	0	0
V8	0	0	0	0	0	0	0	0
	0	1	0	0	0	1	0	1

c_{ij}

	V1	V2	V3	V4	V5	V6	V7	V8
V1	0	7	9	8	0	0	0	0
V2	7	0	10	3	8	2	0	0
V3	9	10	0	3	6	10	0	0
V4	8	3	3	0	3	2	0	0
V5	0	8	6	3	0	10	9	7
V6	0	2	10	2	10	0	3	2
V7	0	0	0	0	9	3	0	1
V8	0	0	0	0	7	2	1	0



total distance
11