

AMT Übungsblatt 8

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Aufgabe 1: DTW

a)

x(t)/y(t)	0	1	2	2	3	4	3	2	1
1	1	0	1	1	2	3	2	1	0
2	2	1	0	0	1	2	1	0	1
2	2	1	0	0	1	2	1	0	1
3	3	2	1	1	0	1	0	1	2
4	4	3	2	2	1	0	1	2	3
4	4	3	2	2	1	0	1	2	3
1	1	0	1	1	2	3	2	1	0
0	0	1	2	2	3	4	3	2	1

Shortest Path: [[0, 0], [0, 1], [1, 2], [2, 3], [3, 4], [4, 5], [5, 5], [5, 6], [6, 7], [6, 8], [7, 8]]

b)

x(t)/y(t)	0	0	0	0	0	0	1	5	6	13	25	24	9	4	2	1	0	0	0	0
0	0	0	0	0	0	0	1	5	6	13	25	24	9	4	2	1	0	0	0	0
0	0	0	0	0	0	0	1	5	6	13	25	24	9	4	2	1	0	0	0	0
1	1	1	1	1	1	1	0	4	5	12	24	23	8	3	1	0	1	1	1	1
4	4	4	4	4	4	4	3	1	2	9	21	20	5	0	2	3	4	4	4	4
7	7	7	7	7	7	7	6	2	1	6	18	17	2	3	5	6	7	7	7	7
14	14	14	14	14	14	14	13	9	8	1	11	10	5	10	12	13	14	14	14	14
26	26	26	26	26	26	26	25	21	20	13	1	2	17	22	24	25	26	26	26	26
23	23	23	23	23	23	23	22	18	17	10	2	1	14	19	21	22	23	23	23	23
8	8	8	8	8	8	8	7	3	2	5	17	16	1	4	6	7	8	8	8	8
3	3	3	3	3	3	3	2	2	3	10	22	21	6	1	1	2	3	3	3	3
2	2	2	2	2	2	2	1	3	4	11	23	22	7	2	0	1	2	2	2	2
1	1	1	1	1	1	1	0	4	5	12	24	23	8	3	1	0	1	1	1	1
0	0	0	0	0	0	0	1	5	6	13	25	24	9	4	2	1	0	0	0	0
0	0	0	0	0	0	0	1	5	6	13	25	24	9	4	2	1	0	0	0	0
0	0	0	0	0	0	0	1	5	6	13	25	24	9	4	2	1	0	0	0	0
0	0	0	0	0	0	0	1	5	6	13	25	24	9	4	2	1	0	0	0	0
0	0	0	0	0	0	0	1	5	6	13	25	24	9	4	2	1	0	0	0	0
0	0	0	0	0	0	0	1	5	6	13	25	24	9	4	2	1	0	0	0	0
0	0	0	0	0	0	0	1	5	6	13	25	24	9	4	2	1	0	0	0	0
0	0	0	0	0	0	0	1	5	6	13	25	24	9	4	2	1	0	0	0	0
0	0	0	0	0	0	0	1	5	6	13	25	24	9	4	2	1	0	0	0	0

Shortest Path: [[0, 0], [1, 1], [1, 2], [1, 3], [1, 4], [1, 5], [2, 6], [3, 7], [4, 8], [5, 9], [6, 10], [7, 11], [8, 12], [9, 13], [10, 14], [11, 15], [12, 16], [13, 17], [14, 18], [15, 19], [16, 19], [17, 19], [18, 19], [19, 19]]