Assignment 3

CS 331

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Example Output 10x10 (Can do more but for simplicity sake)

Note: Diagonal movement would NEVER result in optimal path, so obmitted

7	22	24	6	19	26	29	37	37	9
37	29	19	32	9	26	19	7	12	11
1	38	0	32	19	36	1	12	26	2
31	29	39	28	5	16	32	23	17	26
38	9	24	26	4	9	39	2	22	39
16	27	11	22	39	32	17	14	16	3
4	30	16	12	26	31	20	1	6	36
33	6	31	30	1	29	12	11	31	25
22	38	7	28	26	34	29	1	9	16
0	36	14	24	3	37	28	19	16	19

Maximum Path Value: 539

PATH --- (Highlighted)

(0,0) to (0,0)

(0,0)left to (0,1)

(0,1)left to (0,2)

(0,2)left to (0,3)

(0,3)left to (0,4)

(0,4)left to (0,5)

(0,5)left to (0,6)

(0,6)left to (0,7)

(0,7)left to (0,8)

(0,8)left to (0,9)

(0,0)up to (1,0)

(1,0)left to (1,1)

(1,1)left to (1,2)

(1,2)left to (1,3)

(1,3)left to (1,4)

(1,4)left to (1,5)

(1,5)left to (1,6)

(1,6)left to (1,7)

(0,8)up to (1,8)

(1,8)left to (1,9)

(1,0)up to (2,0)

(1,1)up to (2,1)

(2,1)left to (2,2)

(1,3)up to (2,3)

(2,3)left to (2,4)

(2,4)left to (2,5)

(2,5)left to (2,6)

(2,6)left to (2,7)

(2,7)left to (2,8)

(2,8)left to (2,9)

(2,0)up to (3,0)

(2,1)up to (3,1)

(3,1)left to (3,2)

(3,2)left to (3,3)

(3,3)left to (3,4)

(3,4)left to (3,5)

(3,5)left to (3,6)

(3,6)left to (3,7)

(3,7)left to (3,8)

(3,8)left to (3,9)

(3,0)up to (4,0)

(3,1)up to (4,1)

(3,2)up to (4,2)

(3,3)up to (4,3)

(4,3)left to (4,4)

(4,4)left to (4,5)

(3,6)up to (4,6)

(4,6)left to (4,7)

(4,7)left to (4,8)

(3,9)up to (4,9)

(4,0)up to (5,0)

(4,1)up to (5,1)

(4,2)up to (5,2)

(4,3)up to (5,3)

(5,3)left to (5,4)

(5,4)left to (5,5)

(5,5)left to (5,6)

(5,6)left to (5,7)

(5,7)left to (5,8)

(5,8)left to (5,9)

(5,0)up to (6,0)

(5,1)up to (6,1)

(5,2)up to (6,2)

(5,3)up to (6,3)

(5,4)up to (6,4)

(5,5)up to (6,5)

(6,5)left to (6,6)

(6,6)left to (6,7)

(6,7)left to (6,8)

(6,8)left to (6,9)

(6,0)up to (7,0)

(6,1)up to (7,1)

(6,2)up to (7,2)

(6,3)up to (7,3)

(6,4)up to (7,4)

(6,5)up to (7,5)

(7,5)left to (7,6)

(7,6)left to (7,7)

(7,7)left to (7,8)

(7,8)left to (7,9)

(7,0)up to (8,0)

(7,1)up to (8,1)

(7,2)up to (8,2)

(7,3)up to (8,3)

(8,3)left to (8,4)

(7,5)up to (8,5)

(8,5)left to (8,6)

(8,6)left to (8,7)

(8,7)left to (8,8)

(7,9)up to (8,9)

(8,0)up to (9,0)

(8,1)up to (9,1)

(9,1)left to (9,2)

(8,3)up to (9,3)

(8,4)up to (9,4)

(8,5)up to (9,5)

(9,5)left to (9,6)

(9,6)left to (9,7)

(9,7)left to (9,8)

(9,8)left to (9,9)