

A3_Report.pdf

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Assignment 3 Report -- Heuristic Search

CSE 415: Introduction to Artificial Intelligence

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Puzzle	Heuristic	Solved?	#Solution Edge	Solution Cost	Expanded	Max open
A	none (UCS)	Y	7	7	166	101
A	Manhattan	Y	7	7	9	8
A	Hamming	Y	7	7	7	6
B	none(UCS)	Y	12	12	1490	898
B	Manhattan	Y	12	12	47	38
B	Hamming	Y	12	12	95	72
C	none(UCS)	Y	14	14	4070	2290
C	Manhattan	Y	14	14	53	35
C	Hamming	Y	14	14	195	127
D	none(UCS)	Y	16	16	7982	4700
D	Manhattan	Y	16	16	248	143
D	Hamming	Y	16	16	592	368

Puzzle A: [3,0,1,6,4,2,7,8,5]

Puzzle B: [3,1,2,6,8,7,5,4,0]

Puzzle C: [4,5,0,1,2,8,3,7,6]

Puzzle D: [0,8,2,1,7,4,3,6,5]