

This file, HeuristicSearch.pdf, is the report for HW2 part2.
It compares different Heuristic functions' impact on Eight Puzzle Problem

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Assignment 2 Report -- Heuristic Search

CSE 415: Introduction to Artificial Intelligence
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1. Results with Heuristics for the Eight Puzzle

Puzzle	Heuristic	Solved?	#Soln Edges	Soln Cost	# Expanded	Max Open
A	none	Y	7	7	166	101
A	Hamming	Y	7	7	7	6
A	Manhattan	Y	7	7	7	6
B	none	Y	12	12	1490	898
B	Hamming	Y	12	12	94	72
B	Manhattan	Y	12	12	33	25
C	none	Y	14	14	4070	2290
C	Hamming	Y	14	14	189	127
C	Manhattan	Y	14	14	56	39
D	none	Y	16	16	7982	4700
D	Hamming	Y	16	16	589	368
D	Manhattan	Y	16	16	148	96

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]