

Homework 2

StepsTo Run:

Execute main.py by command

Make main.py executable by:

chmod +x main.py

.\main.py no_of_stacks no_of_blocks arg3 --g --p --d

no_of_stacks : No. of stacks (default value: 3)

no_of_blocks : No of Blocks(default value: 5)

arg3 : Type of Heuristic (“custom” or “default”) by default it will run for both and when it executes for both it generates report also as “report.html” having statistics and path to files having path to goal state.

--g (optional) : Use Greedy approach instead of ASTAR, default value is false.

--p (optional): Deletes extra priority queue elements when it crosses certain limit, default value is false.

--d (optional) : To see traces, default is false

Custom Heuristic:

Picks best state on the basis of max-heap priority queue.

Gives +10 points for the blocks in place

Deducts -5 for path length (-5*depth)

If blocks are in increasing order from top in other stacks give +1 for each such block, this comes from the idea that if block are in increasing order from top on other stacks than they can be moved to final state in fewer steps

Deduct -5 if any block out of order in first stack this is done because to get goal state no block should be out of order.

The custom heuristic used is better then default heuristic, it find path to goal state with less iterations, smaller queue size and less no. of states visited. But there can be more optimal heuristic than the used one.

Analysis by taking average for 5 random games for 3x5:

	Default Heuristic	Custom Heuristic
Iterations	278.8	18.8
Path Length	9	9
Maximum Queue Size	147	32.6
No. of states visited	286.6	49.4

Analysis for different dimensions of game

Case 1

Analysis of different heuristics for Block game!!

Properties	Block in place Heuristic	Customized Heuristic
Iterations	18181	194
Path Length	18	18
Maximum Queue Length	24449	405
Number of states visited	42629	598

Initial state

Stack 1 : ['H', 'D', 'E']

Stack 2 : ['G', 'I', 'F']

Stack 3 : ['A', 'B', 'C']

CASE 2

Analysis of different heuristics for Block game!!

Properties	Block in place Heuristic	Customized Heuristic
Iterations	948	17
Path Length	14	15
Maximum Queue Length	1913	41
Number of states visited	2860	57

Initial state

Stack 1 : ['A', 'B', 'H']

Stack 2 : ['I', 'G', 'F', 'J']

Stack 3 : ['D', 'C', 'E']

CASE 3

Analysis of different heuristics for Block game!!

Properties	Block in place Heuristic	Customized Heuristic
Iterations	23121	134
Path Length	18	19
Maximum Queue Length	31111	251
Number of states visited	54230	384

Initial state

Stack 1 : []

Stack 2 : ['H', 'D', 'A', 'F', 'C', 'G']

Stack 3 : ['E', 'B']

CASE 4

Analysis of different heuristics for Block game!!

Properties	Block in place Heuristic	Customized Heuristic
Iterations	113	12
Path Length	9	9
Maximum Queue Length	478	52
Number of states visited	590	63

Initial state

Stack 1 : ['A']

Stack 2 : ['E', 'F']

Stack 3 : ['D', 'G']

Stack 4 : ['C', 'B']

CASE 5

Analysis of different heuristics for Block game!!

Properties	Block in place Heuristic	Customized Heuristic
Iterations	610	15
Path Length	13	13
Maximum Queue Length	2261	70
Number of states visited	2870	84

Initial state

Stack 1 : ['E']

Stack 2 : ['G', 'H']

Stack 3 : ['A', 'B']

Stack 4 : ['I', 'F', 'D', 'C']

Path 2 goal

Case 1

Initial State:

['H', 'D', 'E']

['G', 'T', 'F']

['A', 'B', 'C']

Solving by Custom Heuristic

iter = 0, queue = 1, heur = -5.0, depth = 0
iter = 1, queue = 6, heur = -9.0, depth = 1
iter = 2, queue = 9, heur = -10.0, depth = 1
iter = 3, queue = 12, heur = -10.0, depth = 1
iter = 4, queue = 15, heur = -10.0, depth = 1
iter = 5, queue = 18, heur = -10.0, depth = 1
iter = 6, queue = 21, heur = -10.0, depth = 1
iter = 7, queue = 24, heur = -13.0, depth = 2
iter = 8, queue = 27, heur = -13.0, depth = 3
iter = 9, queue = 28, heur = -14.0, depth = 2
iter = 10, queue = 31, heur = -14.0, depth = 2
iter = 11, queue = 34, heur = -14.0, depth = 3
iter = 12, queue = 35, heur = -14.0, depth = 2
iter = 13, queue = 38, heur = -14.0, depth = 2
iter = 14, queue = 41, heur = -14.0, depth = 2
iter = 15, queue = 44, heur = -14.0, depth = 3
iter = 16, queue = 45, heur = -15.0, depth = 2
iter = 17, queue = 48, heur = -15.0, depth = 2
iter = 18, queue = 51, heur = -15.0, depth = 3
iter = 19, queue = 52, heur = -15.0, depth = 2
iter = 20, queue = 55, heur = -15.0, depth = 2
iter = 21, queue = 58, heur = -15.0, depth = 2
iter = 22, queue = 61, heur = -15.0, depth = 3
iter = 23, queue = 62, heur = -15.0, depth = 2
iter = 24, queue = 65, heur = -15.0, depth = 2
iter = 25, queue = 68, heur = -15.0, depth = 2
iter = 26, queue = 71, heur = -15.0, depth = 3
iter = 27, queue = 72, heur = -15.0, depth = 3
iter = 28, queue = 73, heur = -15.0, depth = 2
iter = 29, queue = 76, heur = -15.0, depth = 2
iter = 30, queue = 79, heur = -15.0, depth = 3
iter = 31, queue = 80, heur = -15.0, depth = 2
iter = 32, queue = 82, heur = -15.0, depth = 2
iter = 33, queue = 85, heur = -15.0, depth = 2
iter = 34, queue = 88, heur = -15.0, depth = 2
iter = 35, queue = 91, heur = -15.0, depth = 2
iter = 36, queue = 94, heur = -15.0, depth = 2
iter = 37, queue = 97, heur = -15.0, depth = 2
iter = 38, queue = 99, heur = -15.0, depth = 2
iter = 39, queue = 101, heur = -17.0, depth = 3

iter = 40, queue = 104, heur = -17.0, depth = 4
iter = 41, queue = 105, heur = -18.0, depth = 3
iter = 42, queue = 108, heur = -18.0, depth = 3
iter = 43, queue = 109, heur = -18.0, depth = 3
iter = 44, queue = 112, heur = -17.0, depth = 4
iter = 45, queue = 113, heur = -19.0, depth = 4
iter = 46, queue = 114, heur = -19.0, depth = 3
iter = 47, queue = 116, heur = -19.0, depth = 3
iter = 48, queue = 119, heur = -19.0, depth = 3
iter = 49, queue = 120, heur = -19.0, depth = 3
iter = 50, queue = 123, heur = -19.0, depth = 3
iter = 51, queue = 126, heur = -19.0, depth = 3
iter = 52, queue = 129, heur = -19.0, depth = 4
iter = 53, queue = 130, heur = -19.0, depth = 3
iter = 54, queue = 133, heur = -19.0, depth = 3
iter = 55, queue = 136, heur = -19.0, depth = 3
iter = 56, queue = 137, heur = -19.0, depth = 3
iter = 57, queue = 140, heur = -19.0, depth = 3
iter = 58, queue = 143, heur = -19.0, depth = 3
iter = 59, queue = 146, heur = -19.0, depth = 3
iter = 60, queue = 147, heur = -19.0, depth = 4
iter = 61, queue = 148, heur = -19.0, depth = 4
iter = 62, queue = 149, heur = -19.0, depth = 3
iter = 63, queue = 152, heur = -19.0, depth = 4
iter = 64, queue = 153, heur = -20.0, depth = 3
iter = 65, queue = 156, heur = -20.0, depth = 4
iter = 66, queue = 157, heur = -20.0, depth = 3
iter = 67, queue = 160, heur = -20.0, depth = 3
iter = 68, queue = 162, heur = -20.0, depth = 3
iter = 69, queue = 165, heur = -20.0, depth = 3
iter = 70, queue = 167, heur = -20.0, depth = 4
iter = 71, queue = 168, heur = -20.0, depth = 3
iter = 72, queue = 171, heur = -20.0, depth = 3
iter = 73, queue = 174, heur = -19.0, depth = 4
iter = 74, queue = 175, heur = -20.0, depth = 3
iter = 75, queue = 176, heur = -20.0, depth = 3
iter = 76, queue = 177, heur = -20.0, depth = 3
iter = 77, queue = 180, heur = -20.0, depth = 3
iter = 78, queue = 181, heur = -20.0, depth = 3
iter = 79, queue = 184, heur = -20.0, depth = 3
iter = 80, queue = 187, heur = -20.0, depth = 3
iter = 81, queue = 189, heur = -20.0, depth = 4
iter = 82, queue = 190, heur = -20.0, depth = 3
iter = 83, queue = 191, heur = -20.0, depth = 3
iter = 84, queue = 192, heur = -20.0, depth = 3
iter = 85, queue = 195, heur = -20.0, depth = 3
iter = 86, queue = 196, heur = -20.0, depth = 4
iter = 87, queue = 197, heur = -20.0, depth = 3
iter = 88, queue = 200, heur = -20.0, depth = 4
iter = 89, queue = 201, heur = -20.0, depth = 3
iter = 90, queue = 204, heur = -20.0, depth = 3
iter = 91, queue = 207, heur = -20.0, depth = 3
iter = 92, queue = 210, heur = -20.0, depth = 3
iter = 93, queue = 213, heur = -20.0, depth = 3
iter = 94, queue = 216, heur = -20.0, depth = 4
iter = 95, queue = 217, heur = -20.0, depth = 4
iter = 96, queue = 218, heur = -20.0, depth = 3
iter = 97, queue = 221, heur = -20.0, depth = 3
iter = 98, queue = 224, heur = -20.0, depth = 3

iter = 99, queue = 227, heur = -20.0, depth = 3
iter = 100, queue = 230, heur = -20.0, depth = 3
iter = 101, queue = 233, heur = -20.0, depth = 4
iter = 102, queue = 234, heur = -20.0, depth = 4
iter = 103, queue = 235, heur = -20.0, depth = 3
iter = 104, queue = 236, heur = -20.0, depth = 3
iter = 105, queue = 239, heur = -19.0, depth = 4
iter = 106, queue = 240, heur = -20.0, depth = 3
iter = 107, queue = 242, heur = -20.0, depth = 4
iter = 108, queue = 243, heur = -20.0, depth = 4
iter = 109, queue = 244, heur = -20.0, depth = 4
iter = 110, queue = 245, heur = -20.0, depth = 3
iter = 111, queue = 247, heur = -20.0, depth = 3
iter = 112, queue = 250, heur = -20.0, depth = 3
iter = 113, queue = 253, heur = -20.0, depth = 4
iter = 114, queue = 254, heur = -20.0, depth = 3
iter = 115, queue = 257, heur = -20.0, depth = 3
iter = 116, queue = 260, heur = -20.0, depth = 3
iter = 117, queue = 263, heur = -20.0, depth = 3
iter = 118, queue = 266, heur = -20.0, depth = 3
iter = 119, queue = 269, heur = -20.0, depth = 3
iter = 120, queue = 270, heur = -20.0, depth = 3
iter = 121, queue = 273, heur = -20.0, depth = 3
iter = 122, queue = 274, heur = -20.0, depth = 3
iter = 123, queue = 277, heur = -20.0, depth = 4
iter = 124, queue = 278, heur = -20.0, depth = 3
iter = 125, queue = 280, heur = -20.0, depth = 4
iter = 126, queue = 281, heur = -20.0, depth = 3
iter = 127, queue = 282, heur = -20.0, depth = 4
iter = 128, queue = 283, heur = -20.0, depth = 3
iter = 129, queue = 286, heur = -20.0, depth = 3
iter = 130, queue = 289, heur = -20.0, depth = 4
iter = 131, queue = 290, heur = -20.0, depth = 3
iter = 132, queue = 293, heur = -20.0, depth = 3
iter = 133, queue = 296, heur = -20.0, depth = 3
iter = 134, queue = 297, heur = -20.0, depth = 3
iter = 135, queue = 300, heur = -20.0, depth = 3
iter = 136, queue = 302, heur = -20.0, depth = 4
iter = 137, queue = 303, heur = -20.0, depth = 3
iter = 138, queue = 306, heur = -20.0, depth = 3
iter = 139, queue = 307, heur = -20.0, depth = 3
iter = 140, queue = 308, heur = -20.0, depth = 4
iter = 141, queue = 309, heur = -20.0, depth = 4
iter = 142, queue = 310, heur = -20.0, depth = 3
iter = 143, queue = 311, heur = -20.0, depth = 4
iter = 144, queue = 312, heur = -20.0, depth = 4
iter = 145, queue = 313, heur = -20.0, depth = 3
iter = 146, queue = 316, heur = -20.0, depth = 3
iter = 147, queue = 317, heur = -20.0, depth = 3
iter = 148, queue = 320, heur = -20.0, depth = 3
iter = 149, queue = 321, heur = -20.0, depth = 3
iter = 150, queue = 322, heur = -20.0, depth = 3
iter = 151, queue = 325, heur = -20.0, depth = 4
iter = 152, queue = 326, heur = -20.0, depth = 4
iter = 153, queue = 327, heur = -20.0, depth = 4
iter = 154, queue = 328, heur = -20.0, depth = 4
iter = 155, queue = 329, heur = -20.0, depth = 3
iter = 156, queue = 332, heur = -20.0, depth = 3
iter = 157, queue = 334, heur = -20.0, depth = 4

iter = 158, queue = 335, heur = -20.0, depth = 3
 iter = 159, queue = 338, heur = -20.0, depth = 4
 iter = 160, queue = 339, heur = -20.0, depth = 4
 iter = 161, queue = 340, heur = -20.0, depth = 4
 iter = 162, queue = 341, heur = -20.0, depth = 4
 iter = 163, queue = 342, heur = -20.0, depth = 3
 iter = 164, queue = 343, heur = -21.0, depth = 4
 iter = 165, queue = 346, heur = -21.0, depth = 5
 iter = 166, queue = 347, heur = -22.0, depth = 4
 iter = 167, queue = 350, heur = -23.0, depth = 4
 iter = 168, queue = 353, heur = -23.0, depth = 4
 iter = 169, queue = 356, heur = -23.0, depth = 4
 iter = 170, queue = 359, heur = -23.0, depth = 4
 iter = 171, queue = 362, heur = -23.0, depth = 4
 iter = 172, queue = 363, heur = -23.0, depth = 4
 iter = 173, queue = 366, heur = -23.0, depth = 4
 iter = 174, queue = 369, heur = -23.0, depth = 5
 iter = 175, queue = 370, heur = -23.0, depth = 4
 iter = 176, queue = 373, heur = -23.0, depth = 5
 iter = 177, queue = 374, heur = -23.0, depth = 4
 iter = 178, queue = 375, heur = -24.0, depth = 4
 iter = 179, queue = 378, heur = -24.0, depth = 4
 iter = 180, queue = 380, heur = -24.0, depth = 5
 iter = 181, queue = 381, heur = -19.0, depth = 6
 iter = 182, queue = 382, heur = -15.0, depth = 7
 iter = 183, queue = 383, heur = -10.0, depth = 8
 iter = 184, queue = 384, heur = -13.0, depth = 9
 iter = 185, queue = 387, heur = -9.0, depth = 10
 iter = 186, queue = 390, heur = -5.0, depth = 11
 iter = 187, queue = 393, heur = 0.0, depth = 12
 iter = 188, queue = 396, heur = -4.0, depth = 13
 iter = 189, queue = 397, heur = -5.0, depth = 13
 iter = 190, queue = 400, heur = 0.0, depth = 14
 iter = 191, queue = 401, heur = -5.0, depth = 15
 iter = 192, queue = 404, heur = 0.0, depth = 16
 iter = 193, queue = 405, heur = 5.0, depth = 17

Solution: In Place Blocks Heuristic

STATE 1	_____
	['H', 'D', 'E']
	['G', 'T', 'F']
	['A', 'B', 'C']
STATE 2	_____
	['H', 'D']
	['G', 'T', 'F', 'E']
	['A', 'B', 'C']
STATE 3	_____
	['H']
	['G', 'T', 'F', 'E', 'D']
	['A', 'B', 'C']
STATE 4	_____
	[]
	['G', 'T', 'F', 'E', 'D', 'H']
	['A', 'B', 'C']
STATE 5	_____
	[]
	['G', 'T', 'F', 'E', 'D', 'H', 'C']
	['A', 'B']
STATE 6	_____
	[]

```

['G', 'T', 'F', 'E', 'D', 'H', 'C', 'B']
['A']
STATE 7
['A']
['G', 'T', 'F', 'E', 'D', 'H', 'C', 'B']
[]
STATE 8
['A', 'B']
['G', 'T', 'F', 'E', 'D', 'H', 'C']
[]
STATE 9
['A', 'B', 'C']
['G', 'T', 'F', 'E', 'D', 'H']
[]
STATE 10
['A', 'B', 'C']
['G', 'T', 'F', 'E', 'D']
['H']
STATE 11
['A', 'B', 'C', 'D']
['G', 'T', 'F', 'E']
['H']
STATE 12
['A', 'B', 'C', 'D', 'E']
['G', 'T', 'F']
['H']
STATE 13
['A', 'B', 'C', 'D', 'E', 'F']
['G', 'T']
['H']
STATE 14
['A', 'B', 'C', 'D', 'E', 'F']
['G']
['H', 'T']
STATE 15
['A', 'B', 'C', 'D', 'E', 'F', 'G']
[]
['H', 'T']
STATE 16
['A', 'B', 'C', 'D', 'E', 'F', 'G']
['T']
['H']
STATE 17
['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H']
['T']
[]
STATE 18
['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'T']
[]
[]

```

Iterations: 194

Path Length: 18

Maximum queue size: 405

Number of states visited: 598

Time taken: 0.0360090732574 seconds

Solving by Block in place(default) Heuristic

iter = 0, queue = 1, heur = 0.0, depth = 0

iter = 1, queue = 6, heur = -1.0, depth = 1

iter = 2, queue = 9, heur = -1.0, depth = 1

iter = 3, queue = 12, heur = -1.0, depth = 1
iter = 4, queue = 15, heur = -1.0, depth = 1
iter = 5, queue = 18, heur = -1.0, depth = 1
iter = 6, queue = 21, heur = -1.0, depth = 1
iter = 7, queue = 24, heur = -2.0, depth = 2
iter = 8, queue = 27, heur = -2.0, depth = 2
iter = 9, queue = 30, heur = -2.0, depth = 2
iter = 10, queue = 33, heur = -2.0, depth = 2
iter = 11, queue = 36, heur = -2.0, depth = 2
iter = 12, queue = 39, heur = -2.0, depth = 2
iter = 13, queue = 42, heur = -2.0, depth = 2
iter = 14, queue = 45, heur = -2.0, depth = 2
iter = 15, queue = 48, heur = -2.0, depth = 2
iter = 16, queue = 51, heur = -2.0, depth = 2
iter = 17, queue = 54, heur = -2.0, depth = 2
iter = 18, queue = 57, heur = -2.0, depth = 2
iter = 19, queue = 60, heur = -2.0, depth = 2
iter = 20, queue = 63, heur = -2.0, depth = 2
iter = 21, queue = 66, heur = -2.0, depth = 2
iter = 22, queue = 69, heur = -2.0, depth = 2
iter = 23, queue = 72, heur = -2.0, depth = 2
iter = 24, queue = 75, heur = -2.0, depth = 2
iter = 25, queue = 78, heur = -2.0, depth = 2
iter = 26, queue = 81, heur = -2.0, depth = 2
iter = 27, queue = 83, heur = -2.0, depth = 2
iter = 28, queue = 86, heur = -2.0, depth = 2
iter = 29, queue = 88, heur = -2.0, depth = 2
iter = 30, queue = 90, heur = -2.0, depth = 2
iter = 31, queue = 93, heur = -3.0, depth = 3
iter = 32, queue = 96, heur = -3.0, depth = 3
iter = 33, queue = 99, heur = -3.0, depth = 3
iter = 34, queue = 102, heur = -3.0, depth = 3
iter = 35, queue = 105, heur = -3.0, depth = 3
iter = 36, queue = 106, heur = -3.0, depth = 3
iter = 37, queue = 109, heur = -3.0, depth = 3
iter = 38, queue = 112, heur = -3.0, depth = 3
iter = 39, queue = 115, heur = -3.0, depth = 3
iter = 40, queue = 118, heur = -3.0, depth = 3
iter = 41, queue = 119, heur = -3.0, depth = 3
iter = 42, queue = 120, heur = -3.0, depth = 3
iter = 43, queue = 121, heur = -3.0, depth = 3
iter = 44, queue = 122, heur = -3.0, depth = 3
iter = 45, queue = 123, heur = -3.0, depth = 3
iter = 46, queue = 125, heur = -3.0, depth = 3
iter = 47, queue = 128, heur = -3.0, depth = 3
iter = 48, queue = 131, heur = -3.0, depth = 3
iter = 49, queue = 132, heur = -3.0, depth = 3
iter = 50, queue = 135, heur = -3.0, depth = 3
iter = 51, queue = 138, heur = -3.0, depth = 3
iter = 52, queue = 141, heur = -3.0, depth = 3
iter = 53, queue = 144, heur = -3.0, depth = 3
iter = 54, queue = 147, heur = -3.0, depth = 3
iter = 55, queue = 148, heur = -3.0, depth = 3
iter = 56, queue = 151, heur = -3.0, depth = 3
iter = 57, queue = 154, heur = -3.0, depth = 3
iter = 58, queue = 157, heur = -3.0, depth = 3
iter = 59, queue = 158, heur = -3.0, depth = 3
iter = 60, queue = 161, heur = -3.0, depth = 3
iter = 61, queue = 164, heur = -3.0, depth = 3

iter = 62, queue = 167, heur = -3.0, depth = 3
iter = 63, queue = 168, heur = -3.0, depth = 3
iter = 64, queue = 169, heur = -3.0, depth = 3
iter = 65, queue = 172, heur = -3.0, depth = 3
iter = 66, queue = 175, heur = -3.0, depth = 3
iter = 67, queue = 178, heur = -3.0, depth = 3
iter = 68, queue = 179, heur = -3.0, depth = 3
iter = 69, queue = 180, heur = -3.0, depth = 3
iter = 70, queue = 183, heur = -3.0, depth = 3
iter = 71, queue = 185, heur = -3.0, depth = 3
iter = 72, queue = 188, heur = -3.0, depth = 3
iter = 73, queue = 190, heur = -3.0, depth = 3
iter = 74, queue = 191, heur = -3.0, depth = 3
iter = 75, queue = 192, heur = -3.0, depth = 3
iter = 76, queue = 194, heur = -3.0, depth = 3
iter = 77, queue = 197, heur = -3.0, depth = 3
iter = 78, queue = 200, heur = -3.0, depth = 3
iter = 79, queue = 201, heur = -3.0, depth = 3
iter = 80, queue = 202, heur = -3.0, depth = 3
iter = 81, queue = 203, heur = -3.0, depth = 3
iter = 82, queue = 206, heur = -3.0, depth = 3
iter = 83, queue = 209, heur = -3.0, depth = 3
iter = 84, queue = 210, heur = -3.0, depth = 3
iter = 85, queue = 213, heur = -3.0, depth = 3
iter = 86, queue = 216, heur = -3.0, depth = 3
iter = 87, queue = 217, heur = -3.0, depth = 3
iter = 88, queue = 220, heur = -3.0, depth = 3
iter = 89, queue = 223, heur = -3.0, depth = 3
iter = 90, queue = 226, heur = -3.0, depth = 3
iter = 91, queue = 228, heur = -3.0, depth = 3
iter = 92, queue = 231, heur = -3.0, depth = 3
iter = 93, queue = 233, heur = -3.0, depth = 3
iter = 94, queue = 236, heur = -3.0, depth = 3
iter = 95, queue = 237, heur = -3.0, depth = 3
iter = 96, queue = 240, heur = -3.0, depth = 3
iter = 97, queue = 243, heur = -3.0, depth = 3
iter = 98, queue = 246, heur = -3.0, depth = 3
iter = 99, queue = 249, heur = -3.0, depth = 3
iter = 100, queue = 251, heur = -3.0, depth = 3
iter = 101, queue = 254, heur = -3.0, depth = 3
iter = 102, queue = 255, heur = -3.0, depth = 3
iter = 103, queue = 258, heur = -3.0, depth = 3
iter = 104, queue = 259, heur = -3.0, depth = 3
iter = 105, queue = 262, heur = -3.0, depth = 3
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iter = 17139, queue = 23427, heur = -8.0, depth = 8
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iter = 17141, queue = 23430, heur = -8.0, depth = 8
iter = 17142, queue = 23431, heur = -8.0, depth = 8
iter = 17143, queue = 23431, heur = -8.0, depth = 8
iter = 17144, queue = 23430, heur = -8.0, depth = 8
iter = 17145, queue = 23431, heur = -8.0, depth = 8
iter = 17146, queue = 23431, heur = -8.0, depth = 8
iter = 17147, queue = 23433, heur = -8.0, depth = 8
iter = 17148, queue = 23433, heur = -8.0, depth = 8
iter = 17149, queue = 23435, heur = -8.0, depth = 8
iter = 17150, queue = 23434, heur = -8.0, depth = 8
iter = 17151, queue = 23435, heur = -8.0, depth = 8
iter = 17152, queue = 23435, heur = -8.0, depth = 8
iter = 17153, queue = 23435, heur = -8.0, depth = 8
iter = 17154, queue = 23436, heur = -8.0, depth = 8
iter = 17155, queue = 23438, heur = -8.0, depth = 8
iter = 17156, queue = 23439, heur = -8.0, depth = 8
iter = 17157, queue = 23440, heur = -8.0, depth = 8
iter = 17158, queue = 23441, heur = -8.0, depth = 8
iter = 17159, queue = 23442, heur = -8.0, depth = 8
iter = 17160, queue = 23444, heur = -8.0, depth = 8
iter = 17161, queue = 23445, heur = -8.0, depth = 8
iter = 17162, queue = 23445, heur = -8.0, depth = 8
iter = 17163, queue = 23445, heur = -8.0, depth = 8
iter = 17164, queue = 23446, heur = -8.0, depth = 8
iter = 17165, queue = 23448, heur = -8.0, depth = 8
iter = 17166, queue = 23451, heur = -8.0, depth = 8
iter = 17167, queue = 23452, heur = -8.0, depth = 8
iter = 17168, queue = 23453, heur = -8.0, depth = 11
iter = 17169, queue = 23454, heur = -8.0, depth = 8
iter = 17170, queue = 23454, heur = -8.0, depth = 13
iter = 17171, queue = 23457, heur = -8.0, depth = 8

iter = 17172, queue = 23459, heur = -8.0, depth = 8
iter = 17173, queue = 23459, heur = -8.0, depth = 8
iter = 17174, queue = 23462, heur = -8.0, depth = 8
iter = 17175, queue = 23464, heur = -8.0, depth = 8
iter = 17176, queue = 23467, heur = -8.0, depth = 8
iter = 17177, queue = 23468, heur = -8.0, depth = 8
iter = 17178, queue = 23471, heur = -8.0, depth = 8
iter = 17179, queue = 23472, heur = -8.0, depth = 10
iter = 17180, queue = 23473, heur = -8.0, depth = 8
iter = 17181, queue = 23475, heur = -8.0, depth = 8
iter = 17182, queue = 23476, heur = -8.0, depth = 9
iter = 17183, queue = 23476, heur = -8.0, depth = 8
iter = 17184, queue = 23477, heur = -8.0, depth = 8
iter = 17185, queue = 23478, heur = -8.0, depth = 8
iter = 17186, queue = 23480, heur = -8.0, depth = 8
iter = 17187, queue = 23479, heur = -8.0, depth = 8
iter = 17188, queue = 23482, heur = -8.0, depth = 8
iter = 17189, queue = 23482, heur = -8.0, depth = 8
iter = 17190, queue = 23485, heur = -8.0, depth = 8
iter = 17191, queue = 23486, heur = -8.0, depth = 8
iter = 17192, queue = 23485, heur = -8.0, depth = 8
iter = 17193, queue = 23488, heur = -8.0, depth = 8
iter = 17194, queue = 23490, heur = -8.0, depth = 8
iter = 17195, queue = 23489, heur = -8.0, depth = 8
iter = 17196, queue = 23490, heur = -8.0, depth = 8
iter = 17197, queue = 23493, heur = -8.0, depth = 8
iter = 17198, queue = 23495, heur = -8.0, depth = 8
iter = 17199, queue = 23498, heur = -8.0, depth = 8
iter = 17200, queue = 23498, heur = -8.0, depth = 8
iter = 17201, queue = 23499, heur = -8.0, depth = 8
iter = 17202, queue = 23498, heur = -8.0, depth = 8
iter = 17203, queue = 23498, heur = -8.0, depth = 8
iter = 17204, queue = 23497, heur = -8.0, depth = 8
iter = 17205, queue = 23500, heur = -8.0, depth = 8
iter = 17206, queue = 23501, heur = -8.0, depth = 8
iter = 17207, queue = 23502, heur = -8.0, depth = 8
iter = 17208, queue = 23501, heur = -8.0, depth = 8
iter = 17209, queue = 23502, heur = -8.0, depth = 14
iter = 17210, queue = 23503, heur = -8.0, depth = 9
iter = 17211, queue = 23504, heur = -8.0, depth = 14
iter = 17212, queue = 23505, heur = -8.0, depth = 14
iter = 17213, queue = 23506, heur = -8.0, depth = 8
iter = 17214, queue = 23509, heur = -8.0, depth = 8
iter = 17215, queue = 23510, heur = -8.0, depth = 15
iter = 17216, queue = 23511, heur = -8.0, depth = 8
iter = 17217, queue = 23513, heur = -8.0, depth = 8
iter = 17218, queue = 23512, heur = -8.0, depth = 8
iter = 17219, queue = 23513, heur = -8.0, depth = 8
iter = 17220, queue = 23514, heur = -8.0, depth = 8
iter = 17221, queue = 23515, heur = -8.0, depth = 14
iter = 17222, queue = 23516, heur = -8.0, depth = 8
iter = 17223, queue = 23517, heur = -8.0, depth = 8
iter = 17224, queue = 23518, heur = -8.0, depth = 8
iter = 17225, queue = 23519, heur = -8.0, depth = 8
iter = 17226, queue = 23519, heur = -8.0, depth = 8
iter = 17227, queue = 23520, heur = -8.0, depth = 8
iter = 17228, queue = 23522, heur = -8.0, depth = 8
iter = 17229, queue = 23524, heur = -8.0, depth = 8
iter = 17230, queue = 23524, heur = -8.0, depth = 9

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

iter = 18175, queue = 24524, heur = -8.0, depth = 8
iter = 18176, queue = 24525, heur = -8.0, depth = 8
iter = 18177, queue = 24524, heur = -8.0, depth = 16
iter = 18178, queue = 24525, heur = -8.0, depth = 8
iter = 18179, queue = 24524, heur = -8.0, depth = 8
iter = 18180, queue = 24525, heur = -8.0, depth = 17

Solution: In Place Blocks Heuristic

STATE 1
[H', 'D', 'E']
[G', 'T', 'F']
[A', 'B', 'C']

STATE 2
[H', 'D']
[G', 'T', 'F', 'E']
[A', 'B', 'C']

STATE 3
[H']
[G', 'T', 'F', 'E', 'D']
[A', 'B', 'C']

STATE 4
[]
[G', 'T', 'F', 'E', 'D', 'H']
[A', 'B', 'C']

STATE 5
[]
[G', 'T', 'F', 'E', 'D', 'H', 'C']
[A', 'B']

STATE 6
[]
[G', 'T', 'F', 'E', 'D', 'H', 'C', 'B']
[A']

STATE 7
[A']
[G', 'T', 'F', 'E', 'D', 'H', 'C', 'B']
[]

STATE 8
[A', 'B']
[G', 'T', 'F', 'E', 'D', 'H', 'C']
[]

STATE 9
[A', 'B', 'C']
[G', 'T', 'F', 'E', 'D', 'H']
[]

STATE 10
[A', 'B', 'C']
[G', 'T', 'F', 'E', 'D']
[H']

STATE 11
[A', 'B', 'C', 'D']
[G', 'T', 'F', 'E']
[H']

STATE 12
[A', 'B', 'C', 'D', 'E']
[G', 'T', 'F']
[H']

STATE 13
[A', 'B', 'C', 'D', 'E', 'F']
[G', 'T']
[H']

STATE 14

['A', 'B', 'C', 'D', 'E', 'F']
 ['G']
 ['H', 'T']

STATE 15

['A', 'B', 'C', 'D', 'E', 'F', 'G']
 []
 ['H', 'T']

STATE 16

['A', 'B', 'C', 'D', 'E', 'F', 'G']
 ['T']
 ['H']

STATE 17

['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H']
 ['T']
 []

STATE 18

['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'T']
 []
 []

Iterations: 18181
 Path Length: 18
 Maximum queue size: 24449
 Number of states visited: 42629
 Time taken: 3.85793399811 seconds

CASE 2:

Initial State:

['A', 'B', 'H']
 ['T', 'G', 'F', 'J']
 ['D', 'C', 'E']

Solving by Custom Heuristic

iter = 0,	queue = 1,	heur = 15.0,	depth = 0
iter = 1,	queue = 6,	heur = 15.0,	depth = 1
iter = 2,	queue = 9,	heur = 15.0,	depth = 1
iter = 3,	queue = 12,	heur = 11.0,	depth = 2
iter = 4,	queue = 15,	heur = 15.0,	depth = 3
iter = 5,	queue = 18,	heur = 20.0,	depth = 4
iter = 6,	queue = 19,	heur = 25.0,	depth = 5
iter = 7,	queue = 20,	heur = 20.0,	depth = 6
iter = 8,	queue = 23,	heur = 16.0,	depth = 7
iter = 9,	queue = 26,	heur = 20.0,	depth = 8
iter = 10,	queue = 29,	heur = 25.0,	depth = 9
iter = 11,	queue = 32,	heur = 21.0,	depth = 10
iter = 12,	queue = 33,	heur = 20.0,	depth = 10
iter = 13,	queue = 36,	heur = 25.0,	depth = 11
iter = 14,	queue = 37,	heur = 20.0,	depth = 12
iter = 15,	queue = 40,	heur = 25.0,	depth = 13
iter = 16,	queue = 41,	heur = 30.0,	depth = 14

Solution: In Place Blocks Heuristic

STATE 1

['A', 'B', 'H']
 ['T', 'G', 'F', 'J']
 ['D', 'C', 'E']

STATE 2

['A', 'B']
 ['T', 'G', 'F', 'J', 'H']
 ['D', 'C', 'E']
 _____ STATE 3 _____
 ['A', 'B']
 ['T', 'G', 'F', 'J', 'H', 'E']
 ['D', 'C']
 _____ STATE 4 _____
 ['A', 'B', 'C']
 ['T', 'G', 'F', 'J', 'H', 'E']
 ['D']
 _____ STATE 5 _____
 ['A', 'B', 'C', 'D']
 ['T', 'G', 'F', 'J', 'H', 'E']
 []
 _____ STATE 6 _____
 ['A', 'B', 'C', 'D', 'E']
 ['T', 'G', 'F', 'J', 'H']
 []
 _____ STATE 7 _____
 ['A', 'B', 'C', 'D', 'E']
 ['T', 'G', 'F', 'J']
 ['H']
 _____ STATE 8 _____
 ['A', 'B', 'C', 'D', 'E']
 ['T', 'G', 'F']
 ['H', 'J']
 _____ STATE 9 _____
 ['A', 'B', 'C', 'D', 'E', 'F']
 ['T', 'G']
 ['H', 'J']
 _____ STATE 10 _____
 ['A', 'B', 'C', 'D', 'E', 'F', 'G']
 ['T']
 ['H', 'J']
 _____ STATE 11 _____
 ['A', 'B', 'C', 'D', 'E', 'F', 'G']
 ['T', 'J']
 ['H']
 _____ STATE 12 _____
 ['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H']
 ['T', 'J']
 []
 _____ STATE 13 _____
 ['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H']
 ['T']
 ['J']
 _____ STATE 14 _____
 ['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'T']
 []
 ['J']
 _____ STATE 15 _____
 ['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'T', 'J']
 []
 []

Iterations: 17
 Path Length: 15
 Maximum queue size: 41
 Number of states visited: 57

Time taken: 0.00334501266479 seconds

Solving by Block in place(default) Heuristic

iter = 0, queue = 1, heur = 2.0, depth = 0
iter = 1, queue = 6, heur = 1.0, depth = 1
iter = 2, queue = 9, heur = 1.0, depth = 1
iter = 3, queue = 12, heur = 1.0, depth = 1
iter = 4, queue = 15, heur = 1.0, depth = 1
iter = 5, queue = 18, heur = 1.0, depth = 1
iter = 6, queue = 21, heur = 1.0, depth = 1
iter = 7, queue = 24, heur = 0.0, depth = 2
iter = 8, queue = 27, heur = 0.0, depth = 2
iter = 9, queue = 30, heur = 0.0, depth = 2
iter = 10, queue = 33, heur = 0.0, depth = 2
iter = 11, queue = 36, heur = 0.0, depth = 2
iter = 12, queue = 39, heur = 0.0, depth = 2
iter = 13, queue = 42, heur = 0.0, depth = 2
iter = 14, queue = 45, heur = 0.0, depth = 2
iter = 15, queue = 48, heur = 0.0, depth = 2
iter = 16, queue = 51, heur = 0.0, depth = 2
iter = 17, queue = 54, heur = 0.0, depth = 2
iter = 18, queue = 57, heur = 0.0, depth = 2
iter = 19, queue = 60, heur = 0.0, depth = 2
iter = 20, queue = 63, heur = 0.0, depth = 2
iter = 21, queue = 66, heur = 0.0, depth = 2
iter = 22, queue = 69, heur = 0.0, depth = 2
iter = 23, queue = 72, heur = 0.0, depth = 2
iter = 24, queue = 74, heur = 0.0, depth = 2
iter = 25, queue = 77, heur = 0.0, depth = 2
iter = 26, queue = 79, heur = 0.0, depth = 2
iter = 27, queue = 81, heur = 0.0, depth = 3
iter = 28, queue = 84, heur = 0.0, depth = 3
iter = 29, queue = 87, heur = 0.0, depth = 4
iter = 30, queue = 88, heur = 0.0, depth = 4
iter = 31, queue = 89, heur = 0.0, depth = 5
iter = 32, queue = 90, heur = -1.0, depth = 5
iter = 33, queue = 93, heur = -1.0, depth = 3
iter = 34, queue = 94, heur = -1.0, depth = 3
iter = 35, queue = 95, heur = -1.0, depth = 2
iter = 36, queue = 98, heur = -1.0, depth = 3
iter = 37, queue = 99, heur = -1.0, depth = 3
iter = 38, queue = 102, heur = -1.0, depth = 3
iter = 39, queue = 105, heur = -1.0, depth = 2
iter = 40, queue = 108, heur = -1.0, depth = 3
iter = 41, queue = 111, heur = -1.0, depth = 3
iter = 42, queue = 112, heur = -1.0, depth = 3
iter = 43, queue = 115, heur = -1.0, depth = 3
iter = 44, queue = 118, heur = -1.0, depth = 3
iter = 45, queue = 121, heur = -1.0, depth = 3
iter = 46, queue = 124, heur = -1.0, depth = 3
iter = 47, queue = 127, heur = -1.0, depth = 3
iter = 48, queue = 130, heur = -1.0, depth = 3
iter = 49, queue = 133, heur = -1.0, depth = 3
iter = 50, queue = 134, heur = -1.0, depth = 3
iter = 51, queue = 136, heur = -1.0, depth = 3
iter = 52, queue = 139, heur = -1.0, depth = 3
iter = 53, queue = 141, heur = -1.0, depth = 3
iter = 54, queue = 142, heur = -1.0, depth = 3
iter = 55, queue = 145, heur = -1.0, depth = 3
iter = 56, queue = 146, heur = -1.0, depth = 3

iter = 57, queue = 149, heur = -1.0, depth = 5
iter = 58, queue = 151, heur = -1.0, depth = 4
iter = 59, queue = 152, heur = -1.0, depth = 4
iter = 60, queue = 153, heur = -1.0, depth = 3
iter = 61, queue = 156, heur = -1.0, depth = 3
iter = 62, queue = 159, heur = -1.0, depth = 3
iter = 63, queue = 162, heur = -1.0, depth = 6
iter = 64, queue = 163, heur = -1.0, depth = 2
iter = 65, queue = 166, heur = -1.0, depth = 6
iter = 66, queue = 167, heur = -1.0, depth = 3
iter = 67, queue = 170, heur = -1.0, depth = 3
iter = 68, queue = 173, heur = -1.0, depth = 3
iter = 69, queue = 175, heur = -1.0, depth = 3
iter = 70, queue = 178, heur = -1.0, depth = 5
iter = 71, queue = 178, heur = -1.0, depth = 3
iter = 72, queue = 181, heur = -1.0, depth = 3
iter = 73, queue = 184, heur = -1.0, depth = 4
iter = 74, queue = 187, heur = -1.0, depth = 4
iter = 75, queue = 190, heur = -1.0, depth = 3
iter = 76, queue = 193, heur = -1.0, depth = 3
iter = 77, queue = 194, heur = -1.0, depth = 3
iter = 78, queue = 197, heur = -1.0, depth = 4
iter = 79, queue = 198, heur = -1.0, depth = 3
iter = 80, queue = 201, heur = -1.0, depth = 4
iter = 81, queue = 203, heur = -1.0, depth = 3
iter = 82, queue = 206, heur = -1.0, depth = 3
iter = 83, queue = 209, heur = -1.0, depth = 3
iter = 84, queue = 210, heur = -1.0, depth = 3
iter = 85, queue = 211, heur = -1.0, depth = 3
iter = 86, queue = 214, heur = -1.0, depth = 3
iter = 87, queue = 217, heur = -1.0, depth = 3
iter = 88, queue = 218, heur = -1.0, depth = 3
iter = 89, queue = 221, heur = -1.0, depth = 3
iter = 90, queue = 224, heur = -1.0, depth = 3
iter = 91, queue = 227, heur = -1.0, depth = 3
iter = 92, queue = 229, heur = -1.0, depth = 3
iter = 93, queue = 232, heur = -1.0, depth = 3
iter = 94, queue = 235, heur = -1.0, depth = 3
iter = 95, queue = 238, heur = -1.0, depth = 3
iter = 96, queue = 241, heur = -1.0, depth = 3
iter = 97, queue = 244, heur = -1.0, depth = 3
iter = 98, queue = 247, heur = -1.0, depth = 3
iter = 99, queue = 250, heur = -1.0, depth = 3
iter = 100, queue = 253, heur = -1.0, depth = 3
iter = 101, queue = 256, heur = -1.0, depth = 3
iter = 102, queue = 258, heur = -1.0, depth = 3
iter = 103, queue = 261, heur = -1.0, depth = 3
iter = 104, queue = 264, heur = -1.0, depth = 3
iter = 105, queue = 267, heur = -1.0, depth = 3
iter = 106, queue = 268, heur = -1.0, depth = 3
iter = 107, queue = 271, heur = -1.0, depth = 2
iter = 108, queue = 274, heur = -1.0, depth = 3
iter = 109, queue = 275, heur = -1.0, depth = 3
iter = 110, queue = 277, heur = -2.0, depth = 4
iter = 111, queue = 280, heur = -2.0, depth = 4
iter = 112, queue = 283, heur = -2.0, depth = 4
iter = 113, queue = 284, heur = -2.0, depth = 4
iter = 114, queue = 286, heur = -2.0, depth = 4
iter = 115, queue = 289, heur = -2.0, depth = 6

iter = 116, queue = 292, heur = -2.0, depth = 3
iter = 117, queue = 295, heur = -2.0, depth = 4
iter = 118, queue = 296, heur = -2.0, depth = 4
iter = 119, queue = 297, heur = -2.0, depth = 4
iter = 120, queue = 300, heur = -2.0, depth = 4
iter = 121, queue = 301, heur = -2.0, depth = 4
iter = 122, queue = 304, heur = -2.0, depth = 4
iter = 123, queue = 305, heur = -2.0, depth = 3
iter = 124, queue = 308, heur = -2.0, depth = 4
iter = 125, queue = 309, heur = -2.0, depth = 4
iter = 126, queue = 312, heur = -2.0, depth = 4
iter = 127, queue = 315, heur = -2.0, depth = 4
iter = 128, queue = 316, heur = -2.0, depth = 4
iter = 129, queue = 319, heur = -2.0, depth = 3
iter = 130, queue = 322, heur = -2.0, depth = 4
iter = 131, queue = 323, heur = -2.0, depth = 4
iter = 132, queue = 324, heur = -2.0, depth = 4
iter = 133, queue = 327, heur = -2.0, depth = 4
iter = 134, queue = 328, heur = -2.0, depth = 4
iter = 135, queue = 331, heur = -2.0, depth = 3
iter = 136, queue = 334, heur = -2.0, depth = 4
iter = 137, queue = 337, heur = -2.0, depth = 4
iter = 138, queue = 340, heur = -2.0, depth = 4
iter = 139, queue = 343, heur = -2.0, depth = 4
iter = 140, queue = 344, heur = -2.0, depth = 4
iter = 141, queue = 347, heur = -2.0, depth = 4
iter = 142, queue = 350, heur = -2.0, depth = 3
iter = 143, queue = 353, heur = -2.0, depth = 4
iter = 144, queue = 355, heur = -2.0, depth = 3
iter = 145, queue = 358, heur = -2.0, depth = 4
iter = 146, queue = 359, heur = -2.0, depth = 4
iter = 147, queue = 362, heur = -2.0, depth = 4
iter = 148, queue = 365, heur = -2.0, depth = 4
iter = 149, queue = 367, heur = -2.0, depth = 4
iter = 150, queue = 367, heur = -2.0, depth = 3
iter = 151, queue = 370, heur = -2.0, depth = 4
iter = 152, queue = 373, heur = -2.0, depth = 4
iter = 153, queue = 376, heur = -2.0, depth = 4
iter = 154, queue = 379, heur = -2.0, depth = 4
iter = 155, queue = 382, heur = -2.0, depth = 4
iter = 156, queue = 385, heur = -2.0, depth = 4
iter = 157, queue = 388, heur = -2.0, depth = 3
iter = 158, queue = 391, heur = -2.0, depth = 4
iter = 159, queue = 394, heur = -2.0, depth = 4
iter = 160, queue = 397, heur = -2.0, depth = 4
iter = 161, queue = 400, heur = -2.0, depth = 4
iter = 162, queue = 402, heur = -2.0, depth = 4
iter = 163, queue = 404, heur = -2.0, depth = 4
iter = 164, queue = 404, heur = -2.0, depth = 4
iter = 165, queue = 406, heur = -2.0, depth = 4
iter = 166, queue = 407, heur = -2.0, depth = 4
iter = 167, queue = 410, heur = -2.0, depth = 4
iter = 168, queue = 413, heur = -2.0, depth = 4
iter = 169, queue = 415, heur = -2.0, depth = 4
iter = 170, queue = 418, heur = -2.0, depth = 4
iter = 171, queue = 420, heur = -2.0, depth = 4
iter = 172, queue = 421, heur = -2.0, depth = 4
iter = 173, queue = 424, heur = -2.0, depth = 4
iter = 174, queue = 427, heur = -2.0, depth = 4

iter = 175, queue = 430, heur = -2.0, depth = 4
iter = 176, queue = 433, heur = -2.0, depth = 4
iter = 177, queue = 436, heur = -2.0, depth = 4
iter = 178, queue = 437, heur = -2.0, depth = 4
iter = 179, queue = 439, heur = -2.0, depth = 4
iter = 180, queue = 442, heur = -2.0, depth = 4
iter = 181, queue = 443, heur = -2.0, depth = 4
iter = 182, queue = 444, heur = -2.0, depth = 4
iter = 183, queue = 447, heur = -2.0, depth = 4
iter = 184, queue = 448, heur = -2.0, depth = 4
iter = 185, queue = 449, heur = -2.0, depth = 3
iter = 186, queue = 451, heur = -2.0, depth = 4
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iter = 918, queue = 1861, heur = -3.0, depth = 5
iter = 919, queue = 1864, heur = -3.0, depth = 5
iter = 920, queue = 1867, heur = -3.0, depth = 5
iter = 921, queue = 1867, heur = -3.0, depth = 5
iter = 922, queue = 1868, heur = -3.0, depth = 5
iter = 923, queue = 1870, heur = -3.0, depth = 5
iter = 924, queue = 1873, heur = -3.0, depth = 5
iter = 925, queue = 1875, heur = -3.0, depth = 4
iter = 926, queue = 1875, heur = -3.0, depth = 5
iter = 927, queue = 1878, heur = -3.0, depth = 5
iter = 928, queue = 1881, heur = -3.0, depth = 5
iter = 929, queue = 1884, heur = -3.0, depth = 4
iter = 930, queue = 1887, heur = -3.0, depth = 5
iter = 931, queue = 1890, heur = -3.0, depth = 5
iter = 932, queue = 1892, heur = -3.0, depth = 5
iter = 933, queue = 1893, heur = -3.0, depth = 4
iter = 934, queue = 1896, heur = -3.0, depth = 5
iter = 935, queue = 1899, heur = -3.0, depth = 7
iter = 936, queue = 1901, heur = -3.0, depth = 8
iter = 937, queue = 1904, heur = -3.0, depth = 8
iter = 938, queue = 1907, heur = -3.0, depth = 8
iter = 939, queue = 1910, heur = -3.0, depth = 9
iter = 940, queue = 1913, heur = -3.0, depth = 5
iter = 941, queue = 1912, heur = -3.0, depth = 10

iter = 942, queue = 1915, heur = -3.0, depth = 8
iter = 943, queue = 1915, heur = -3.0, depth = 11
iter = 944, queue = 1918, heur = -3.0, depth = 5
iter = 945, queue = 1920, heur = -3.0, depth = 12
iter = 946, queue = 1921, heur = -3.0, depth = 5
iter = 947, queue = 1923, heur = -3.0, depth = 13

Solution: In Place Blocks Heuristic

STATE 1
[A, B, H]
[T, G, F, J]
[D, C, E]

STATE 2
[A, B]
[T, G, F, J, H]
[D, C, E]

STATE 3
[A, B]
[T, G, F, J, H, E]
[D, C]

STATE 4
[A, B, C]
[T, G, F, J, H, E]
[D]

STATE 5
[A, B, C, D]
[T, G, F, J, H, E]
[]

STATE 6
[A, B, C, D, E]
[T, G, F, J, H]
[]

STATE 7
[A, B, C, D, E, H]
[T, G, F, J]
[]

STATE 8
[A, B, C, D, E, H]
[T, G, F]
[J]

STATE 9
[A, B, C, D, E]
[T, G, F]
[J, H]

STATE 10
[A, B, C, D, E, F]
[T, G]
[J, H]

STATE 11
[A, B, C, D, E, F, G]
[T]
[J, H]

STATE 12
[A, B, C, D, E, F, G, H]
[T]
[J]

STATE 13
[A, B, C, D, E, F, G, H, T]
[]
[J]

STATE 14

['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'T', 'J']

[]

[]

Iterations: 948

Path Length: 14

Maximum queue size: 1913

Number of states visited: 2860

Time taken: 0.176671028137 seconds

Case 3

Initial State:

[]

['H', 'D', 'A', 'F', 'C', 'G']

['E', 'B']

Solving by Custom Heuristic

iter = 0, queue = 1, heur = 0.0, depth = 0

iter = 1, queue = 4, heur = -5.0, depth = 1

iter = 2, queue = 5, heur = -5.0, depth = 1

iter = 3, queue = 6, heur = -10.0, depth = 2

iter = 4, queue = 7, heur = -10.0, depth = 2

iter = 5, queue = 6, heur = -10.0, depth = 1

iter = 6, queue = 9, heur = -10.0, depth = 1

iter = 7, queue = 12, heur = -14.0, depth = 2

iter = 8, queue = 15, heur = -14.0, depth = 3

iter = 9, queue = 15, heur = -15.0, depth = 2

iter = 10, queue = 18, heur = -15.0, depth = 2

iter = 11, queue = 20, heur = -15.0, depth = 2

iter = 12, queue = 21, heur = -15.0, depth = 3

iter = 13, queue = 22, heur = -10.0, depth = 4

iter = 14, queue = 25, heur = -15.0, depth = 3

iter = 15, queue = 26, heur = -15.0, depth = 5

iter = 16, queue = 29, heur = -15.0, depth = 3

iter = 17, queue = 30, heur = -15.0, depth = 2

iter = 18, queue = 31, heur = -15.0, depth = 2

iter = 19, queue = 34, heur = -15.0, depth = 5

iter = 20, queue = 37, heur = -15.0, depth = 2

iter = 21, queue = 40, heur = -15.0, depth = 3

iter = 22, queue = 39, heur = -15.0, depth = 2

iter = 23, queue = 42, heur = -15.0, depth = 2

iter = 24, queue = 45, heur = -15.0, depth = 3

iter = 25, queue = 46, heur = -15.0, depth = 3

iter = 26, queue = 47, heur = -15.0, depth = 3

iter = 27, queue = 47, heur = -15.0, depth = 2

iter = 28, queue = 48, heur = -19.0, depth = 3

iter = 29, queue = 49, heur = -19.0, depth = 3

iter = 30, queue = 52, heur = -19.0, depth = 4

iter = 31, queue = 53, heur = -14.0, depth = 5

iter = 32, queue = 56, heur = -19.0, depth = 4

iter = 33, queue = 57, heur = -20.0, depth = 3

iter = 34, queue = 60, heur = -20.0, depth = 3

iter = 35, queue = 63, heur = -20.0, depth = 3

iter = 36, queue = 64, heur = -20.0, depth = 3

iter = 37, queue = 65, heur = -20.0, depth = 6

iter = 38, queue = 68, heur = -20.0, depth = 4

iter = 39, queue = 69, heur = -20.0, depth = 4
iter = 40, queue = 70, heur = -20.0, depth = 4
iter = 41, queue = 71, heur = -20.0, depth = 6
iter = 42, queue = 74, heur = -20.0, depth = 4
iter = 43, queue = 73, heur = -20.0, depth = 3
iter = 44, queue = 74, heur = -20.0, depth = 4
iter = 45, queue = 75, heur = -15.0, depth = 5
iter = 46, queue = 78, heur = -18.0, depth = 6
iter = 47, queue = 81, heur = -20.0, depth = 3
iter = 48, queue = 84, heur = -20.0, depth = 5
iter = 49, queue = 87, heur = -20.0, depth = 4
iter = 50, queue = 86, heur = -20.0, depth = 6
iter = 51, queue = 89, heur = -20.0, depth = 3
iter = 52, queue = 90, heur = -20.0, depth = 5
iter = 53, queue = 93, heur = -20.0, depth = 3
iter = 54, queue = 96, heur = -20.0, depth = 3
iter = 55, queue = 97, heur = -20.0, depth = 4
iter = 56, queue = 98, heur = -20.0, depth = 3
iter = 57, queue = 101, heur = -20.0, depth = 3
iter = 58, queue = 104, heur = -20.0, depth = 3
iter = 59, queue = 105, heur = -20.0, depth = 3
iter = 60, queue = 108, heur = -20.0, depth = 3
iter = 61, queue = 111, heur = -20.0, depth = 3
iter = 62, queue = 114, heur = -19.0, depth = 4
iter = 63, queue = 115, heur = -20.0, depth = 3
iter = 64, queue = 117, heur = -20.0, depth = 4
iter = 65, queue = 118, heur = -20.0, depth = 4
iter = 66, queue = 119, heur = -20.0, depth = 3
iter = 67, queue = 122, heur = -20.0, depth = 3
iter = 68, queue = 125, heur = -20.0, depth = 4
iter = 69, queue = 126, heur = -20.0, depth = 4
iter = 70, queue = 127, heur = -15.0, depth = 5
iter = 71, queue = 130, heur = -20.0, depth = 6
iter = 72, queue = 133, heur = -20.0, depth = 3
iter = 73, queue = 134, heur = -20.0, depth = 3
iter = 74, queue = 137, heur = -20.0, depth = 6
iter = 75, queue = 138, heur = -20.0, depth = 3
iter = 76, queue = 141, heur = -20.0, depth = 3
iter = 77, queue = 142, heur = -20.0, depth = 3
iter = 78, queue = 145, heur = -20.0, depth = 3
iter = 79, queue = 146, heur = -20.0, depth = 3
iter = 80, queue = 148, heur = -20.0, depth = 6
iter = 81, queue = 151, heur = -20.0, depth = 4
iter = 82, queue = 150, heur = -20.0, depth = 6
iter = 83, queue = 153, heur = -24.0, depth = 4
iter = 84, queue = 154, heur = -24.0, depth = 4
iter = 85, queue = 157, heur = -24.0, depth = 5
iter = 86, queue = 158, heur = -24.0, depth = 4
iter = 87, queue = 159, heur = -24.0, depth = 6
iter = 88, queue = 162, heur = -24.0, depth = 4
iter = 89, queue = 165, heur = -24.0, depth = 4
iter = 90, queue = 168, heur = -24.0, depth = 4
iter = 91, queue = 169, heur = -24.0, depth = 6
iter = 92, queue = 170, heur = -24.0, depth = 6
iter = 93, queue = 172, heur = -24.0, depth = 4
iter = 94, queue = 175, heur = -24.0, depth = 7
iter = 95, queue = 178, heur = -24.0, depth = 5
iter = 96, queue = 179, heur = -24.0, depth = 5
iter = 97, queue = 179, heur = -24.0, depth = 5

iter = 98, queue = 179, heur = -25.0, depth = 5
 iter = 99, queue = 180, heur = -25.0, depth = 4
 iter = 100, queue = 181, heur = -25.0, depth = 6
 iter = 101, queue = 184, heur = -25.0, depth = 4
 iter = 102, queue = 185, heur = -25.0, depth = 4
 iter = 103, queue = 188, heur = -25.0, depth = 4
 iter = 104, queue = 191, heur = -25.0, depth = 5
 iter = 105, queue = 192, heur = -25.0, depth = 4
 iter = 106, queue = 195, heur = -25.0, depth = 4
 iter = 107, queue = 198, heur = -25.0, depth = 6
 iter = 108, queue = 199, heur = -25.0, depth = 4
 iter = 109, queue = 202, heur = -25.0, depth = 4
 iter = 110, queue = 205, heur = -25.0, depth = 5
 iter = 111, queue = 206, heur = -20.0, depth = 6
 iter = 112, queue = 209, heur = -24.0, depth = 7
 iter = 113, queue = 212, heur = -20.0, depth = 8
 iter = 114, queue = 215, heur = -15.0, depth = 9
 iter = 115, queue = 218, heur = -19.0, depth = 10
 iter = 116, queue = 221, heur = -14.0, depth = 11
 iter = 117, queue = 224, heur = -20.0, depth = 10
 iter = 118, queue = 227, heur = -20.0, depth = 12
 iter = 119, queue = 228, heur = -20.0, depth = 12
 iter = 120, queue = 231, heur = -24.0, depth = 12
 iter = 121, queue = 232, heur = -25.0, depth = 4
 iter = 122, queue = 235, heur = -25.0, depth = 5
 iter = 123, queue = 236, heur = -25.0, depth = 4
 iter = 124, queue = 238, heur = -25.0, depth = 4
 iter = 125, queue = 241, heur = -25.0, depth = 13
 iter = 126, queue = 244, heur = -20.0, depth = 14
 iter = 127, queue = 245, heur = -25.0, depth = 4
 iter = 128, queue = 248, heur = -25.0, depth = 5
 iter = 129, queue = 249, heur = -25.0, depth = 5
 iter = 130, queue = 250, heur = -25.0, depth = 15
 iter = 131, queue = 253, heur = -20.0, depth = 16
 iter = 132, queue = 256, heur = -15.0, depth = 17
 iter = 133, queue = 257, heur = -10.0, depth = 18

Solution: In Place Blocks Heuristic

_____ STATE 1 _____
 []
 ['H', 'D', 'A', 'F', 'C', 'G']
 ['E', 'B']
 _____ STATE 2 _____
 ['B']
 ['H', 'D', 'A', 'F', 'C', 'G']
 ['E']
 _____ STATE 3 _____
 ['B']
 ['H', 'D', 'A', 'F', 'C']
 ['E', 'G']
 _____ STATE 4 _____
 ['B']
 ['H', 'D', 'A', 'F']
 ['E', 'G', 'C']
 _____ STATE 5 _____
 []
 ['H', 'D', 'A', 'F']
 ['E', 'G', 'C', 'B']
 _____ STATE 6 _____
 []

['H', 'D', 'A']
 ['E', 'G', 'C', 'B', 'F']
 _____ STATE 7 _____
 ['A']
 ['H', 'D']
 ['E', 'G', 'C', 'B', 'F']
 _____ STATE 8 _____
 ['A']
 ['H', 'D', 'F']
 ['E', 'G', 'C', 'B']
 _____ STATE 9 _____
 ['A', 'B']
 ['H', 'D', 'F']
 ['E', 'G', 'C']
 _____ STATE 10 _____
 ['A', 'B', 'C']
 ['H', 'D', 'F']
 ['E', 'G']
 _____ STATE 11 _____
 ['A', 'B', 'C']
 ['H', 'D']
 ['E', 'G', 'F']
 _____ STATE 12 _____
 ['A', 'B', 'C', 'D']
 ['H']
 ['E', 'G', 'F']
 _____ STATE 13 _____
 ['A', 'B', 'C', 'D']
 ['H', 'F']
 ['E', 'G']
 _____ STATE 14 _____
 ['A', 'B', 'C', 'D']
 ['H', 'F', 'G']
 ['E']
 _____ STATE 15 _____
 ['A', 'B', 'C', 'D', 'E']
 ['H', 'F', 'G']
 []
 _____ STATE 16 _____
 ['A', 'B', 'C', 'D', 'E']
 ['H', 'F']
 ['G']
 _____ STATE 17 _____
 ['A', 'B', 'C', 'D', 'E', 'F']
 ['H']
 ['G']
 _____ STATE 18 _____
 ['A', 'B', 'C', 'D', 'E', 'F', 'G']
 ['H']
 []
 _____ STATE 19 _____
 ['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H']
 []
 []

Iterations: 134

Path Length: 19

Maximum queue size: 251

Number of states visited: 384

Time taken: 0.0233879089355 seconds

Solving by Block in place(default) Heuristic

iter = 0, queue = 1, heur = 0.0, depth = 0
iter = 1, queue = 4, heur = -1.0, depth = 1
iter = 2, queue = 7, heur = -1.0, depth = 1
iter = 3, queue = 8, heur = -1.0, depth = 1
iter = 4, queue = 11, heur = -1.0, depth = 1
iter = 5, queue = 12, heur = -2.0, depth = 2
iter = 6, queue = 13, heur = -2.0, depth = 2
iter = 7, queue = 14, heur = -2.0, depth = 2
iter = 8, queue = 17, heur = -2.0, depth = 2
iter = 9, queue = 18, heur = -2.0, depth = 2
iter = 10, queue = 21, heur = -2.0, depth = 2
iter = 11, queue = 20, heur = -2.0, depth = 2
iter = 12, queue = 23, heur = -2.0, depth = 2
iter = 13, queue = 26, heur = -2.0, depth = 2
iter = 14, queue = 27, heur = -2.0, depth = 2
iter = 15, queue = 30, heur = -2.0, depth = 2
iter = 16, queue = 32, heur = -2.0, depth = 2
iter = 17, queue = 35, heur = -3.0, depth = 3
iter = 18, queue = 38, heur = -3.0, depth = 3
iter = 19, queue = 39, heur = -3.0, depth = 3
iter = 20, queue = 40, heur = -3.0, depth = 3
iter = 21, queue = 40, heur = -3.0, depth = 3
iter = 22, queue = 39, heur = -3.0, depth = 3
iter = 23, queue = 42, heur = -3.0, depth = 3
iter = 24, queue = 43, heur = -3.0, depth = 3
iter = 25, queue = 44, heur = -3.0, depth = 3
iter = 26, queue = 47, heur = -3.0, depth = 3
iter = 27, queue = 50, heur = -3.0, depth = 3
iter = 28, queue = 51, heur = -3.0, depth = 3
iter = 29, queue = 54, heur = -3.0, depth = 3
iter = 30, queue = 57, heur = -3.0, depth = 3
iter = 31, queue = 58, heur = -3.0, depth = 3
iter = 32, queue = 57, heur = -3.0, depth = 3
iter = 33, queue = 60, heur = -3.0, depth = 4
iter = 34, queue = 63, heur = -3.0, depth = 3
iter = 35, queue = 66, heur = -3.0, depth = 3
iter = 36, queue = 69, heur = -3.0, depth = 3
iter = 37, queue = 70, heur = -3.0, depth = 3
iter = 38, queue = 71, heur = -3.0, depth = 3
iter = 39, queue = 74, heur = -3.0, depth = 3
iter = 40, queue = 77, heur = -3.0, depth = 3
iter = 41, queue = 78, heur = -3.0, depth = 3
iter = 42, queue = 79, heur = -3.0, depth = 3
iter = 43, queue = 79, heur = -3.0, depth = 3
iter = 44, queue = 81, heur = -3.0, depth = 3
iter = 45, queue = 84, heur = -3.0, depth = 3
iter = 46, queue = 86, heur = -3.0, depth = 3
iter = 47, queue = 89, heur = -3.0, depth = 3
iter = 48, queue = 90, heur = -3.0, depth = 3
iter = 49, queue = 91, heur = -3.0, depth = 3
iter = 50, queue = 92, heur = -3.0, depth = 3
iter = 51, queue = 93, heur = -3.0, depth = 3
iter = 52, queue = 96, heur = -3.0, depth = 3
iter = 53, queue = 99, heur = -4.0, depth = 4
iter = 54, queue = 102, heur = -4.0, depth = 4
iter = 55, queue = 103, heur = -4.0, depth = 4
iter = 56, queue = 106, heur = -4.0, depth = 4
iter = 57, queue = 107, heur = -4.0, depth = 4

iter = 58, queue = 108, heur = -4.0, depth = 4
iter = 59, queue = 111, heur = -4.0, depth = 4
iter = 60, queue = 111, heur = -4.0, depth = 5
iter = 61, queue = 114, heur = -4.0, depth = 4
iter = 62, queue = 115, heur = -4.0, depth = 5
iter = 63, queue = 118, heur = -4.0, depth = 5
iter = 64, queue = 121, heur = -4.0, depth = 4
iter = 65, queue = 123, heur = -4.0, depth = 4
iter = 66, queue = 124, heur = -4.0, depth = 4
iter = 67, queue = 127, heur = -4.0, depth = 4
iter = 68, queue = 130, heur = -4.0, depth = 4
iter = 69, queue = 129, heur = -4.0, depth = 4
iter = 70, queue = 132, heur = -4.0, depth = 4
iter = 71, queue = 135, heur = -4.0, depth = 4
iter = 72, queue = 136, heur = -4.0, depth = 4
iter = 73, queue = 139, heur = -4.0, depth = 4
iter = 74, queue = 138, heur = -4.0, depth = 4
iter = 75, queue = 141, heur = -4.0, depth = 4
iter = 76, queue = 144, heur = -4.0, depth = 4
iter = 77, queue = 145, heur = -4.0, depth = 4
iter = 78, queue = 148, heur = -4.0, depth = 4
iter = 79, queue = 151, heur = -4.0, depth = 4
iter = 80, queue = 154, heur = -4.0, depth = 4
iter = 81, queue = 155, heur = -4.0, depth = 4
iter = 82, queue = 158, heur = -4.0, depth = 4
iter = 83, queue = 159, heur = -4.0, depth = 4
iter = 84, queue = 162, heur = -4.0, depth = 4
iter = 85, queue = 165, heur = -4.0, depth = 4
iter = 86, queue = 166, heur = -4.0, depth = 4
iter = 87, queue = 169, heur = -4.0, depth = 4
iter = 88, queue = 172, heur = -4.0, depth = 4
iter = 89, queue = 175, heur = -4.0, depth = 4
iter = 90, queue = 176, heur = -4.0, depth = 4
iter = 91, queue = 178, heur = -4.0, depth = 4
iter = 92, queue = 179, heur = -4.0, depth = 5
iter = 93, queue = 181, heur = -4.0, depth = 4
iter = 94, queue = 182, heur = -4.0, depth = 4
iter = 95, queue = 185, heur = -4.0, depth = 4
iter = 96, queue = 188, heur = -4.0, depth = 4
iter = 97, queue = 189, heur = -4.0, depth = 4
iter = 98, queue = 190, heur = -4.0, depth = 4
iter = 99, queue = 191, heur = -4.0, depth = 4
iter = 100, queue = 194, heur = -4.0, depth = 4
iter = 101, queue = 196, heur = -4.0, depth = 4
iter = 102, queue = 197, heur = -4.0, depth = 4
iter = 103, queue = 198, heur = -4.0, depth = 4
iter = 104, queue = 201, heur = -4.0, depth = 4
iter = 105, queue = 204, heur = -4.0, depth = 4
iter = 106, queue = 205, heur = -4.0, depth = 4
iter = 107, queue = 207, heur = -4.0, depth = 4
iter = 108, queue = 210, heur = -4.0, depth = 4
iter = 109, queue = 210, heur = -4.0, depth = 4
iter = 110, queue = 213, heur = -4.0, depth = 4
iter = 111, queue = 216, heur = -4.0, depth = 4
iter = 112, queue = 217, heur = -4.0, depth = 4
iter = 113, queue = 220, heur = -4.0, depth = 4
iter = 114, queue = 222, heur = -4.0, depth = 4
iter = 115, queue = 225, heur = -4.0, depth = 4
iter = 116, queue = 228, heur = -4.0, depth = 4

iter = 117, queue = 231, heur = -4.0, depth = 4
iter = 118, queue = 232, heur = -4.0, depth = 4
iter = 119, queue = 235, heur = -4.0, depth = 5
iter = 120, queue = 238, heur = -4.0, depth = 4
iter = 121, queue = 239, heur = -4.0, depth = 4
iter = 122, queue = 242, heur = -4.0, depth = 4
iter = 123, queue = 244, heur = -4.0, depth = 4
iter = 124, queue = 244, heur = -4.0, depth = 4
iter = 125, queue = 244, heur = -4.0, depth = 4
iter = 126, queue = 247, heur = -4.0, depth = 4
iter = 127, queue = 249, heur = -4.0, depth = 4
iter = 128, queue = 251, heur = -4.0, depth = 4
iter = 129, queue = 251, heur = -4.0, depth = 4
iter = 130, queue = 251, heur = -4.0, depth = 4
iter = 131, queue = 254, heur = -4.0, depth = 4
iter = 132, queue = 255, heur = -4.0, depth = 4
iter = 133, queue = 258, heur = -4.0, depth = 5
iter = 134, queue = 261, heur = -4.0, depth = 4
iter = 135, queue = 264, heur = -4.0, depth = 4
iter = 136, queue = 267, heur = -4.0, depth = 4
iter = 137, queue = 268, heur = -4.0, depth = 4
iter = 138, queue = 271, heur = -4.0, depth = 4
iter = 139, queue = 274, heur = -4.0, depth = 4
iter = 140, queue = 276, heur = -4.0, depth = 4
iter = 141, queue = 279, heur = -4.0, depth = 4
iter = 142, queue = 279, heur = -4.0, depth = 4
iter = 143, queue = 282, heur = -4.0, depth = 4
iter = 144, queue = 284, heur = -4.0, depth = 4
iter = 145, queue = 287, heur = -4.0, depth = 4
iter = 146, queue = 288, heur = -4.0, depth = 4
iter = 147, queue = 289, heur = -4.0, depth = 4
iter = 148, queue = 291, heur = -4.0, depth = 4
iter = 149, queue = 294, heur = -4.0, depth = 4
iter = 150, queue = 294, heur = -4.0, depth = 4
iter = 151, queue = 296, heur = -4.0, depth = 4
iter = 152, queue = 296, heur = -4.0, depth = 4
iter = 153, queue = 299, heur = -4.0, depth = 4
iter = 154, queue = 300, heur = -4.0, depth = 5
iter = 155, queue = 303, heur = -5.0, depth = 5
iter = 156, queue = 304, heur = -5.0, depth = 6
iter = 157, queue = 305, heur = -5.0, depth = 5
iter = 158, queue = 306, heur = -5.0, depth = 5
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[illegible]

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iter = 22851, queue = 31079, heur = -9.0, depth = 9
iter = 22852, queue = 31080, heur = -9.0, depth = 9
iter = 22853, queue = 31079, heur = -9.0, depth = 9
iter = 22854, queue = 31078, heur = -9.0, depth = 9
iter = 22855, queue = 31078, heur = -9.0, depth = 9
iter = 22856, queue = 31077, heur = -9.0, depth = 9
iter = 22857, queue = 31080, heur = -9.0, depth = 9
iter = 22858, queue = 31081, heur = -9.0, depth = 9
iter = 22859, queue = 31081, heur = -9.0, depth = 9
iter = 22860, queue = 31082, heur = -9.0, depth = 9
iter = 22861, queue = 31082, heur = -9.0, depth = 9
iter = 22862, queue = 31083, heur = -9.0, depth = 9
iter = 22863, queue = 31084, heur = -9.0, depth = 9
iter = 22864, queue = 31085, heur = -9.0, depth = 11
iter = 22865, queue = 31086, heur = -9.0, depth = 9
iter = 22866, queue = 31087, heur = -9.0, depth = 9
iter = 22867, queue = 31088, heur = -9.0, depth = 9
iter = 22868, queue = 31089, heur = -9.0, depth = 9
iter = 22869, queue = 31090, heur = -9.0, depth = 9
iter = 22870, queue = 31091, heur = -9.0, depth = 9
iter = 22871, queue = 31091, heur = -9.0, depth = 10
iter = 22872, queue = 31094, heur = -9.0, depth = 9
iter = 22873, queue = 31093, heur = -9.0, depth = 11
iter = 22874, queue = 31094, heur = -9.0, depth = 9
iter = 22875, queue = 31093, heur = -9.0, depth = 9
iter = 22876, queue = 31094, heur = -9.0, depth = 9
iter = 22877, queue = 31096, heur = -9.0, depth = 9
iter = 22878, queue = 31097, heur = -9.0, depth = 9
iter = 22879, queue = 31096, heur = -9.0, depth = 9
iter = 22880, queue = 31095, heur = -9.0, depth = 9
iter = 22881, queue = 31096, heur = -9.0, depth = 9
iter = 22882, queue = 31096, heur = -9.0, depth = 9
iter = 22883, queue = 31097, heur = -9.0, depth = 9
iter = 22884, queue = 31096, heur = -9.0, depth = 9
iter = 22885, queue = 31099, heur = -9.0, depth = 9
iter = 22886, queue = 31098, heur = -9.0, depth = 9
iter = 22887, queue = 31099, heur = -9.0, depth = 9
iter = 22888, queue = 31102, heur = -9.0, depth = 9
iter = 22889, queue = 31105, heur = -9.0, depth = 9
iter = 22890, queue = 31108, heur = -9.0, depth = 9

[illegible]

iter = 22950, queue = 31148, heur = -9.0, depth = 9
iter = 22951, queue = 31150, heur = -9.0, depth = 10
iter = 22952, queue = 31150, heur = -9.0, depth = 9
iter = 22953, queue = 31152, heur = -9.0, depth = 9
iter = 22954, queue = 31152, heur = -9.0, depth = 9
iter = 22955, queue = 31151, heur = -9.0, depth = 9
iter = 22956, queue = 31151, heur = -9.0, depth = 9
iter = 22957, queue = 31152, heur = -9.0, depth = 9
iter = 22958, queue = 31152, heur = -9.0, depth = 9
iter = 22959, queue = 31151, heur = -9.0, depth = 9
iter = 22960, queue = 31152, heur = -9.0, depth = 9
iter = 22961, queue = 31152, heur = -9.0, depth = 9
iter = 22962, queue = 31152, heur = -9.0, depth = 9
iter = 22963, queue = 31151, heur = -9.0, depth = 9
iter = 22964, queue = 31151, heur = -9.0, depth = 9
iter = 22965, queue = 31152, heur = -9.0, depth = 9
iter = 22966, queue = 31153, heur = -9.0, depth = 9
iter = 22967, queue = 31155, heur = -9.0, depth = 9
iter = 22968, queue = 31156, heur = -9.0, depth = 9
iter = 22969, queue = 31155, heur = -9.0, depth = 9
iter = 22970, queue = 31154, heur = -9.0, depth = 9
iter = 22971, queue = 31155, heur = -9.0, depth = 9
iter = 22972, queue = 31157, heur = -9.0, depth = 10
iter = 22973, queue = 31160, heur = -9.0, depth = 9
iter = 22974, queue = 31159, heur = -9.0, depth = 9
iter = 22975, queue = 31161, heur = -9.0, depth = 9
iter = 22976, queue = 31161, heur = -9.0, depth = 9
iter = 22977, queue = 31162, heur = -9.0, depth = 10
iter = 22978, queue = 31163, heur = -9.0, depth = 10
iter = 22979, queue = 31162, heur = -9.0, depth = 9
iter = 22980, queue = 31162, heur = -9.0, depth = 9
iter = 22981, queue = 31163, heur = -9.0, depth = 9
iter = 22982, queue = 31164, heur = -9.0, depth = 9
iter = 22983, queue = 31165, heur = -9.0, depth = 9
iter = 22984, queue = 31165, heur = -9.0, depth = 9
iter = 22985, queue = 31167, heur = -9.0, depth = 9
iter = 22986, queue = 31168, heur = -9.0, depth = 9
iter = 22987, queue = 31167, heur = -9.0, depth = 9
iter = 22988, queue = 31168, heur = -9.0, depth = 10
iter = 22989, queue = 31167, heur = -9.0, depth = 9
iter = 22990, queue = 31167, heur = -9.0, depth = 9
iter = 22991, queue = 31167, heur = -9.0, depth = 9
iter = 22992, queue = 31168, heur = -9.0, depth = 9
iter = 22993, queue = 31169, heur = -9.0, depth = 9
iter = 22994, queue = 31172, heur = -9.0, depth = 9
iter = 22995, queue = 31172, heur = -9.0, depth = 9
iter = 22996, queue = 31175, heur = -9.0, depth = 9
iter = 22997, queue = 31175, heur = -9.0, depth = 9
iter = 22998, queue = 31176, heur = -9.0, depth = 9
iter = 22999, queue = 31178, heur = -9.0, depth = 10
iter = 23000, queue = 31179, heur = -9.0, depth = 9
iter = 23001, queue = 31179, heur = -9.0, depth = 9
iter = 23002, queue = 31180, heur = -9.0, depth = 9
iter = 23003, queue = 31181, heur = -9.0, depth = 9
iter = 23004, queue = 31181, heur = -9.0, depth = 9
iter = 23005, queue = 31182, heur = -9.0, depth = 9
iter = 23006, queue = 31183, heur = -9.0, depth = 9
iter = 23007, queue = 31184, heur = -9.0, depth = 9
iter = 23008, queue = 31186, heur = -9.0, depth = 9

[illegible]

iter = 23068, queue = 31227, heur = -9.0, depth = 9
iter = 23069, queue = 31228, heur = -9.0, depth = 9
iter = 23070, queue = 31231, heur = -9.0, depth = 9
iter = 23071, queue = 31232, heur = -9.0, depth = 9
iter = 23072, queue = 31231, heur = -9.0, depth = 9
iter = 23073, queue = 31231, heur = -9.0, depth = 10
iter = 23074, queue = 31233, heur = -9.0, depth = 9
iter = 23075, queue = 31234, heur = -9.0, depth = 9
iter = 23076, queue = 31236, heur = -9.0, depth = 9
iter = 23077, queue = 31237, heur = -9.0, depth = 9
iter = 23078, queue = 31237, heur = -9.0, depth = 9
iter = 23079, queue = 31236, heur = -9.0, depth = 9
iter = 23080, queue = 31238, heur = -9.0, depth = 9
iter = 23081, queue = 31238, heur = -9.0, depth = 9
iter = 23082, queue = 31238, heur = -9.0, depth = 10
iter = 23083, queue = 31239, heur = -9.0, depth = 9
iter = 23084, queue = 31240, heur = -9.0, depth = 9
iter = 23085, queue = 31243, heur = -9.0, depth = 10
iter = 23086, queue = 31244, heur = -9.0, depth = 9
iter = 23087, queue = 31243, heur = -9.0, depth = 9
iter = 23088, queue = 31244, heur = -9.0, depth = 9
iter = 23089, queue = 31245, heur = -9.0, depth = 9
iter = 23090, queue = 31247, heur = -9.0, depth = 9
iter = 23091, queue = 31248, heur = -9.0, depth = 9
iter = 23092, queue = 31249, heur = -9.0, depth = 9
iter = 23093, queue = 31249, heur = -9.0, depth = 9
iter = 23094, queue = 31252, heur = -9.0, depth = 9
iter = 23095, queue = 31253, heur = -9.0, depth = 9
iter = 23096, queue = 31253, heur = -9.0, depth = 9
iter = 23097, queue = 31253, heur = -9.0, depth = 9
iter = 23098, queue = 31254, heur = -9.0, depth = 9
iter = 23099, queue = 31255, heur = -9.0, depth = 9
iter = 23100, queue = 31256, heur = -9.0, depth = 10
iter = 23101, queue = 31257, heur = -9.0, depth = 9
iter = 23102, queue = 31257, heur = -9.0, depth = 9
iter = 23103, queue = 31256, heur = -9.0, depth = 9
iter = 23104, queue = 31255, heur = -9.0, depth = 9
iter = 23105, queue = 31257, heur = -9.0, depth = 9
iter = 23106, queue = 31258, heur = -9.0, depth = 9
iter = 23107, queue = 31261, heur = -9.0, depth = 9
iter = 23108, queue = 31261, heur = -9.0, depth = 9
iter = 23109, queue = 31260, heur = -9.0, depth = 9
iter = 23110, queue = 31261, heur = -9.0, depth = 9
iter = 23111, queue = 31261, heur = -9.0, depth = 9
iter = 23112, queue = 31260, heur = -9.0, depth = 9
iter = 23113, queue = 31263, heur = -9.0, depth = 9
iter = 23114, queue = 31264, heur = -9.0, depth = 14
iter = 23115, queue = 31265, heur = -9.0, depth = 9
iter = 23116, queue = 31264, heur = -9.0, depth = 15
iter = 23117, queue = 31267, heur = -9.0, depth = 9
iter = 23118, queue = 31268, heur = -9.0, depth = 16
iter = 23119, queue = 31269, heur = -9.0, depth = 9
iter = 23120, queue = 31268, heur = -9.0, depth = 17

Solution: In Place Blocks Heuristic

STATE 1

[]

['H', 'D', 'A', 'F', 'C', 'G']

['E', 'B']

STATE 2

['B']
['H', 'D', 'A', 'F', 'C', 'G']
['E']
STATE 3

['B']
['H', 'D', 'A', 'F', 'C']
['E', 'G']
STATE 4

['B', 'C']
['H', 'D', 'A', 'F']
['E', 'G']
STATE 5

['B', 'C']
['H', 'D', 'A']
['E', 'G', 'F']
STATE 6

['B']
['H', 'D', 'A']
['E', 'G', 'F', 'C']
STATE 7

[]
['H', 'D', 'A']
['E', 'G', 'F', 'C', 'B']
STATE 8

['A']
['H', 'D']
['E', 'G', 'F', 'C', 'B']
STATE 9

['A', 'B']
['H', 'D']
['E', 'G', 'F', 'C']
STATE 10

['A', 'B', 'C']
['H', 'D']
['E', 'G', 'F']
STATE 11

['A', 'B', 'C', 'D']
['H']
['E', 'G', 'F']
STATE 12

['A', 'B', 'C', 'D']
['H', 'F']
['E', 'G']
STATE 13

['A', 'B', 'C', 'D']
['H', 'F', 'G']
['E']
STATE 14

['A', 'B', 'C', 'D', 'E']
['H', 'F', 'G']
[]
STATE 15

['A', 'B', 'C', 'D', 'E']
['H', 'F']
['G']
STATE 16

['A', 'B', 'C', 'D', 'E', 'F']
['H']
['G']

STATE 17
['A', 'B', 'C', 'D', 'E', 'F', 'G']
['H']
[]
STATE 18
['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H']
[]
[]
Iterations: 23121
Path Length: 18
Maximum queue size: 31111
Number of states visited: 54230
Time taken: 4.79271006584 seconds

CASE 4:

Initial State:

['A']
['E', 'F']
['D', 'G']
['C', 'B']

Solving by Custom Heuristic
iter = 0, queue = 1, heur = 11.0, depth = 0
iter = 1, queue = 12, heur = 15.0, depth = 1
iter = 2, queue = 20, heur = 20.0, depth = 2
iter = 3, queue = 25, heur = 16.0, depth = 3
iter = 4, queue = 29, heur = 15.0, depth = 3
iter = 5, queue = 33, heur = 20.0, depth = 4
iter = 6, queue = 35, heur = 15.0, depth = 3
iter = 7, queue = 43, heur = 20.0, depth = 4
iter = 8, queue = 45, heur = 16.0, depth = 5
iter = 9, queue = 49, heur = 21.0, depth = 6
iter = 10, queue = 51, heur = 25.0, depth = 7
iter = 11, queue = 53, heur = 30.0, depth = 8
Solution: In Place Blocks Heuristic

STATE 1
['A']
['E', 'F']
['D', 'G']
['C', 'B']

STATE 2
['A', 'B']
['E', 'F']
['D', 'G']
['C']

STATE 3
['A', 'B', 'C']
['E', 'F']
['D', 'G']
[]

STATE 4
['A', 'B', 'C']
['E', 'F']
['D']
['G']

```

STATE 5
[A', 'B', 'C', 'D']
[E', 'F']
[]
['G']
STATE 6
[A', 'B', 'C', 'D']
[E']
[]
['G', 'F']
STATE 7
[A', 'B', 'C', 'D', 'E']
[]
[]
['G', 'F']
STATE 8
[A', 'B', 'C', 'D', 'E', 'F']
[]
[]
['G']
STATE 9
[A', 'B', 'C', 'D', 'E', 'F', 'G']
[]
[]
[]

```

Iterations: 12

Path Length: 9

Maximum queue size: 52

Number of states visited: 63

Time taken: 0.00364589691162 seconds

Solving by Block in place(default) Heuristic

```

iter = 0, queue = 1, heur = 1.0, depth = 0
iter = 1, queue = 12, heur = 1.0, depth = 1
iter = 2, queue = 20, heur = 1.0, depth = 2
iter = 3, queue = 25, heur = 0.0, depth = 1
iter = 4, queue = 33, heur = 0.0, depth = 3
iter = 5, queue = 41, heur = 0.0, depth = 2
iter = 6, queue = 49, heur = 0.0, depth = 2
iter = 7, queue = 56, heur = 0.0, depth = 1
iter = 8, queue = 64, heur = 0.0, depth = 2
iter = 9, queue = 70, heur = 0.0, depth = 2
iter = 10, queue = 78, heur = 0.0, depth = 3
iter = 11, queue = 82, heur = 0.0, depth = 1
iter = 12, queue = 89, heur = 0.0, depth = 1
iter = 13, queue = 96, heur = 0.0, depth = 1
iter = 14, queue = 103, heur = 0.0, depth = 3
iter = 15, queue = 108, heur = 0.0, depth = 3
iter = 16, queue = 115, heur = 0.0, depth = 2
iter = 17, queue = 118, heur = 0.0, depth = 3
iter = 18, queue = 120, heur = 0.0, depth = 3
iter = 19, queue = 124, heur = 0.0, depth = 4
iter = 20, queue = 125, heur = 0.0, depth = 1
iter = 21, queue = 132, heur = 0.0, depth = 1
iter = 22, queue = 139, heur = 0.0, depth = 2
iter = 23, queue = 142, heur = 0.0, depth = 4
iter = 24, queue = 144, heur = 0.0, depth = 1
iter = 25, queue = 151, heur = 0.0, depth = 2
iter = 26, queue = 155, heur = 0.0, depth = 2
iter = 27, queue = 161, heur = -1.0, depth = 3

```

iter = 28, queue = 164, heur = -1.0, depth = 3
iter = 29, queue = 169, heur = -1.0, depth = 2
iter = 30, queue = 175, heur = -1.0, depth = 1
iter = 31, queue = 178, heur = -1.0, depth = 2
iter = 32, queue = 186, heur = -1.0, depth = 2
iter = 33, queue = 188, heur = -1.0, depth = 2
iter = 34, queue = 192, heur = -1.0, depth = 2
iter = 35, queue = 196, heur = -1.0, depth = 2
iter = 36, queue = 200, heur = -1.0, depth = 2
iter = 37, queue = 205, heur = -1.0, depth = 5
iter = 38, queue = 207, heur = -1.0, depth = 2
iter = 39, queue = 211, heur = -1.0, depth = 2
iter = 40, queue = 216, heur = -1.0, depth = 4
iter = 41, queue = 221, heur = -1.0, depth = 4
iter = 42, queue = 224, heur = -1.0, depth = 2
iter = 43, queue = 231, heur = -1.0, depth = 4
iter = 44, queue = 232, heur = -1.0, depth = 4
iter = 45, queue = 234, heur = -1.0, depth = 1
iter = 46, queue = 237, heur = -1.0, depth = 2
iter = 47, queue = 240, heur = -1.0, depth = 2
iter = 48, queue = 244, heur = -1.0, depth = 4
iter = 49, queue = 245, heur = -1.0, depth = 4
iter = 50, queue = 246, heur = -1.0, depth = 3
iter = 51, queue = 251, heur = -1.0, depth = 2
iter = 52, queue = 256, heur = -1.0, depth = 4
iter = 53, queue = 263, heur = -1.0, depth = 4
iter = 54, queue = 265, heur = -1.0, depth = 4
iter = 55, queue = 270, heur = -1.0, depth = 2
iter = 56, queue = 274, heur = -1.0, depth = 4
iter = 57, queue = 279, heur = -1.0, depth = 2
iter = 58, queue = 283, heur = -1.0, depth = 3
iter = 59, queue = 285, heur = -1.0, depth = 4
iter = 60, queue = 287, heur = -1.0, depth = 3
iter = 61, queue = 292, heur = -1.0, depth = 2
iter = 62, queue = 298, heur = -1.0, depth = 3
iter = 63, queue = 302, heur = -1.0, depth = 4
iter = 64, queue = 303, heur = -1.0, depth = 4
iter = 65, queue = 305, heur = -1.0, depth = 3
iter = 66, queue = 308, heur = -1.0, depth = 4
iter = 67, queue = 311, heur = -1.0, depth = 4
iter = 68, queue = 314, heur = -1.0, depth = 3
iter = 69, queue = 316, heur = -1.0, depth = 2
iter = 70, queue = 322, heur = -1.0, depth = 3
iter = 71, queue = 326, heur = -1.0, depth = 4
iter = 72, queue = 331, heur = -1.0, depth = 2
iter = 73, queue = 336, heur = -1.0, depth = 3
iter = 74, queue = 342, heur = -1.0, depth = 2
iter = 75, queue = 344, heur = -1.0, depth = 2
iter = 76, queue = 349, heur = -1.0, depth = 3
iter = 77, queue = 357, heur = -1.0, depth = 3
iter = 78, queue = 363, heur = -1.0, depth = 2
iter = 79, queue = 370, heur = -1.0, depth = 3
iter = 80, queue = 376, heur = -1.0, depth = 2
iter = 81, queue = 381, heur = -1.0, depth = 3
iter = 82, queue = 386, heur = -1.0, depth = 2
iter = 83, queue = 394, heur = -1.0, depth = 3
iter = 84, queue = 396, heur = -1.0, depth = 3
iter = 85, queue = 400, heur = -1.0, depth = 2
iter = 86, queue = 406, heur = -1.0, depth = 2

iter = 87, queue = 408, heur = -1.0, depth = 3
 iter = 88, queue = 411, heur = -1.0, depth = 2
 iter = 89, queue = 415, heur = -1.0, depth = 2
 iter = 90, queue = 419, heur = -1.0, depth = 3
 iter = 91, queue = 423, heur = -1.0, depth = 3
 iter = 92, queue = 426, heur = -1.0, depth = 2
 iter = 93, queue = 432, heur = -1.0, depth = 4
 iter = 94, queue = 439, heur = -1.0, depth = 2
 iter = 95, queue = 446, heur = -1.0, depth = 5
 iter = 96, queue = 449, heur = -1.0, depth = 2
 iter = 97, queue = 451, heur = -1.0, depth = 6
 iter = 98, queue = 453, heur = -1.0, depth = 2
 iter = 99, queue = 457, heur = -1.0, depth = 2
 iter = 100, queue = 458, heur = -1.0, depth = 4
 iter = 101, queue = 461, heur = -1.0, depth = 4
 iter = 102, queue = 463, heur = -1.0, depth = 2
 iter = 103, queue = 465, heur = -1.0, depth = 4
 iter = 104, queue = 466, heur = -1.0, depth = 4
 iter = 105, queue = 468, heur = -1.0, depth = 3
 iter = 106, queue = 470, heur = -1.0, depth = 5
 iter = 107, queue = 474, heur = -1.0, depth = 4
 iter = 108, queue = 476, heur = -1.0, depth = 6
 iter = 109, queue = 478, heur = -1.0, depth = 4
 iter = 110, queue = 480, heur = -1.0, depth = 7
 iter = 111, queue = 482, heur = -1.0, depth = 3
 iter = 112, queue = 487, heur = -1.0, depth = 8

Solution: In Place Blocks Heuristic

STATE 1

['A']
 ['E', 'F']
 ['D', 'G']
 ['C', 'B']

STATE 2

['A', 'B']
 ['E', 'F']
 ['D', 'G']
 ['C']

STATE 3

['A', 'B', 'C']
 ['E', 'F']
 ['D', 'G']
 []

STATE 4

['A', 'B', 'C']
 ['E', 'F']
 ['D']
 ['G']

STATE 5

['A', 'B', 'C', 'D']
 ['E', 'F']
 []
 ['G']

STATE 6

['A', 'B', 'C', 'D']
 ['E']
 []
 ['G', 'F']

STATE 7

['A', 'B', 'C', 'D', 'E']

```

[]
[]
['G', 'F']
STATE 8
['A', 'B', 'C', 'D', 'E', 'F']
[]
[]
['G']
STATE 9
['A', 'B', 'C', 'D', 'E', 'F', 'G']
[]
[]
[]
Iterations: 113
Path Length: 9
Maximum queue size: 478
Number of states visited: 590
Time taken: 0.033077955246 seconds

```

CASE 5:

Initial State:

```

['E']
['G', 'H']
['A', 'B']
['T', 'F', 'D', 'C']

```

```

Solving by Custom Heuristic . . . . .
iter = 0, queue = 1, heur = -4.0, depth = 0
iter = 1, queue = 12, heur = -4.0, depth = 1
iter = 2, queue = 17, heur = -4.0, depth = 1
iter = 3, queue = 22, heur = -5.0, depth = 1
iter = 4, queue = 27, heur = -8.0, depth = 2
iter = 5, queue = 31, heur = -3.0, depth = 3
iter = 6, queue = 36, heur = 1.0, depth = 4
iter = 7, queue = 41, heur = 5.0, depth = 5
iter = 8, queue = 46, heur = 10.0, depth = 6
iter = 9, queue = 51, heur = 15.0, depth = 7
iter = 10, queue = 56, heur = 20.0, depth = 8
iter = 11, queue = 61, heur = 16.0, depth = 9
iter = 12, queue = 66, heur = 21.0, depth = 10
iter = 13, queue = 68, heur = 25.0, depth = 11
iter = 14, queue = 70, heur = 30.0, depth = 12

```

Solution: In Place Blocks Heuristic

```

STATE 1
['E']
['G', 'H']
['A', 'B']
['T', 'F', 'D', 'C']
STATE 2
[]
['G', 'H', 'E']
['A', 'B']
['T', 'F', 'D', 'C']
STATE 3
[]

```

```

['G', 'H', 'E']
['A']
['T', 'F', 'D', 'C', 'B']
STATE 4
['A']
['G', 'H', 'E']
[]
['T', 'F', 'D', 'C', 'B']
STATE 5
['A', 'B']
['G', 'H', 'E']
[]
['T', 'F', 'D', 'C']
STATE 6
['A', 'B', 'C']
['G', 'H', 'E']
[]
['T', 'F', 'D']
STATE 7
['A', 'B', 'C', 'D']
['G', 'H', 'E']
[]
['T', 'F']
STATE 8
['A', 'B', 'C', 'D', 'E']
['G', 'H']
[]
['T', 'F']
STATE 9
['A', 'B', 'C', 'D', 'E', 'F']
['G', 'H']
[]
['T']
STATE 10
['A', 'B', 'C', 'D', 'E', 'F']
['G']
[]
['T', 'H']
STATE 11
['A', 'B', 'C', 'D', 'E', 'F', 'G']
[]
[]
['T', 'H']
STATE 12
['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H']
[]
[]
['T']
STATE 13
['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'T']
[]
[]
[]

```

Iterations: 15

Path Length: 13

Maximum queue size: 70

Number of states visited: 84

Time taken: 0.00547099113464 seconds

Solving by Block in place(default) Heuristic

iter = 0, queue = 1, heur = 0.0, depth = 0
iter = 1, queue = 12, heur = -1.0, depth = 1
iter = 2, queue = 17, heur = -1.0, depth = 1
iter = 3, queue = 24, heur = -1.0, depth = 1
iter = 4, queue = 29, heur = -1.0, depth = 1
iter = 5, queue = 37, heur = -1.0, depth = 1
iter = 6, queue = 44, heur = -1.0, depth = 1
iter = 7, queue = 48, heur = -1.0, depth = 1
iter = 8, queue = 55, heur = -1.0, depth = 1
iter = 9, queue = 61, heur = -1.0, depth = 1
iter = 10, queue = 68, heur = -1.0, depth = 1
iter = 11, queue = 75, heur = -1.0, depth = 1
iter = 12, queue = 81, heur = -1.0, depth = 1
iter = 13, queue = 87, heur = -2.0, depth = 2
iter = 14, queue = 92, heur = -2.0, depth = 2
iter = 15, queue = 99, heur = -2.0, depth = 2
iter = 16, queue = 104, heur = -2.0, depth = 2
iter = 17, queue = 106, heur = -2.0, depth = 2
iter = 18, queue = 113, heur = -2.0, depth = 2
iter = 19, queue = 118, heur = -2.0, depth = 2
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iter = 22, queue = 139, heur = -2.0, depth = 2
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iter = 36, queue = 216, heur = -2.0, depth = 2
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iter = 42, queue = 239, heur = -2.0, depth = 3
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iter = 47, queue = 261, heur = -2.0, depth = 2
iter = 48, queue = 264, heur = -2.0, depth = 3
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iter = 50, queue = 273, heur = -2.0, depth = 2
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iter = 101, queue = 470, heur = -2.0, depth = 2
iter = 102, queue = 471, heur = -2.0, depth = 2
iter = 103, queue = 475, heur = -2.0, depth = 2
iter = 104, queue = 482, heur = -2.0, depth = 4
iter = 105, queue = 484, heur = -2.0, depth = 2
iter = 106, queue = 487, heur = -2.0, depth = 5
iter = 107, queue = 492, heur = -2.0, depth = 2
iter = 108, queue = 496, heur = -2.0, depth = 6
iter = 109, queue = 501, heur = -2.0, depth = 2
iter = 110, queue = 504, heur = -2.0, depth = 7
iter = 111, queue = 509, heur = -2.0, depth = 8
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iter = 114, queue = 526, heur = -3.0, depth = 3
iter = 115, queue = 532, heur = -3.0, depth = 7
iter = 116, queue = 539, heur = -3.0, depth = 6
iter = 117, queue = 547, heur = -3.0, depth = 5

iter = 118, queue = 554, heur = -3.0, depth = 3
iter = 119, queue = 556, heur = -3.0, depth = 3
iter = 120, queue = 564, heur = -3.0, depth = 5
iter = 121, queue = 569, heur = -3.0, depth = 9
iter = 122, queue = 573, heur = -3.0, depth = 9
iter = 123, queue = 580, heur = -3.0, depth = 5
iter = 124, queue = 587, heur = -3.0, depth = 9
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iter = 126, queue = 596, heur = -3.0, depth = 3
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iter = 129, queue = 611, heur = -3.0, depth = 8
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iter = 144, queue = 688, heur = -3.0, depth = 7
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iter = 211, queue = 1012, heur = -3.0, depth = 4
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iter = 361, queue = 1576, heur = -3.0, depth = 3
iter = 362, queue = 1583, heur = -3.0, depth = 3
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iter = 438, queue = 1815, heur = -3.0, depth = 4
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iter = 464, queue = 1886, heur = -3.0, depth = 3
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iter = 466, queue = 1887, heur = -3.0, depth = 4
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iter = 469, queue = 1892, heur = -3.0, depth = 3
iter = 470, queue = 1891, heur = -3.0, depth = 3
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iter = 510, queue = 2018, heur = -3.0, depth = 4
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iter = 512, queue = 2021, heur = -3.0, depth = 3
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iter = 522, queue = 2047, heur = -3.0, depth = 3
iter = 523, queue = 2048, heur = -3.0, depth = 3
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iter = 528, queue = 2058, heur = -3.0, depth = 3
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iter = 542, queue = 2099, heur = -3.0, depth = 3
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iter = 546, queue = 2109, heur = -3.0, depth = 3
iter = 547, queue = 2112, heur = -3.0, depth = 3
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iter = 552, queue = 2128, heur = -3.0, depth = 3
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iter = 561, queue = 2144, heur = -3.0, depth = 3
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iter = 563, queue = 2148, heur = -3.0, depth = 3
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iter = 565, queue = 2153, heur = -3.0, depth = 4
iter = 566, queue = 2152, heur = -3.0, depth = 3
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iter = 569, queue = 2166, heur = -3.0, depth = 3
iter = 570, queue = 2171, heur = -3.0, depth = 3
iter = 571, queue = 2176, heur = -3.0, depth = 3
iter = 572, queue = 2178, heur = -3.0, depth = 3
iter = 573, queue = 2181, heur = -3.0, depth = 3
iter = 574, queue = 2189, heur = -3.0, depth = 3
iter = 575, queue = 2192, heur = -3.0, depth = 3
iter = 576, queue = 2198, heur = -3.0, depth = 3
iter = 577, queue = 2202, heur = -3.0, depth = 3
iter = 578, queue = 2206, heur = -3.0, depth = 3
iter = 579, queue = 2211, heur = -3.0, depth = 3
iter = 580, queue = 2217, heur = -3.0, depth = 3
iter = 581, queue = 2223, heur = -3.0, depth = 3
iter = 582, queue = 2222, heur = -3.0, depth = 3
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iter = 584, queue = 2230, heur = -3.0, depth = 3
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iter = 586, queue = 2239, heur = -3.0, depth = 4
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iter = 588, queue = 2243, heur = -3.0, depth = 3
iter = 589, queue = 2250, heur = -3.0, depth = 3

iter = 590, queue = 2254, heur = -3.0, depth = 10
 iter = 591, queue = 2253, heur = -3.0, depth = 3
 iter = 592, queue = 2253, heur = -3.0, depth = 3
 iter = 593, queue = 2255, heur = -3.0, depth = 3
 iter = 594, queue = 2256, heur = -3.0, depth = 3
 iter = 595, queue = 2257, heur = -3.0, depth = 3
 iter = 596, queue = 2259, heur = -3.0, depth = 3
 iter = 597, queue = 2260, heur = -3.0, depth = 3
 iter = 598, queue = 2262, heur = -3.0, depth = 3
 iter = 599, queue = 2267, heur = -3.0, depth = 3
 iter = 600, queue = 2271, heur = -3.0, depth = 3
 iter = 601, queue = 2275, heur = -3.0, depth = 3
 iter = 602, queue = 2278, heur = -3.0, depth = 3
 iter = 603, queue = 2280, heur = -3.0, depth = 11
 iter = 604, queue = 2282, heur = -3.0, depth = 3
 iter = 605, queue = 2287, heur = -3.0, depth = 3
 iter = 606, queue = 2291, heur = -3.0, depth = 3
 iter = 607, queue = 2293, heur = -3.0, depth = 3
 iter = 608, queue = 2298, heur = -3.0, depth = 3
 iter = 609, queue = 2302, heur = -3.0, depth = 12

Solution: In Place Blocks Heuristic

STATE 1 _____
 ['E']
 ['G', 'H']
 ['A', 'B']
 ['T', 'F', 'D', 'C']
 STATE 2 _____
 []
 ['G', 'H', 'E']
 ['A', 'B']
 ['T', 'F', 'D', 'C']
 STATE 3 _____
 []
 ['G', 'H', 'E', 'B']
 ['A']
 ['T', 'F', 'D', 'C']
 STATE 4 _____
 ['A']
 ['G', 'H', 'E', 'B']
 []
 ['T', 'F', 'D', 'C']
 STATE 5 _____
 ['A', 'B']
 ['G', 'H', 'E']
 []
 ['T', 'F', 'D', 'C']
 STATE 6 _____
 ['A', 'B', 'C']
 ['G', 'H', 'E']
 []
 ['T', 'F', 'D']
 STATE 7 _____
 ['A', 'B', 'C', 'D']
 ['G', 'H', 'E']
 []
 ['T', 'F']
 STATE 8 _____
 ['A', 'B', 'C', 'D', 'E']
 ['G', 'H']

```
[]  
[T, F]  
STATE 9  
[A, 'B', 'C', 'D', 'E', 'F']  
[G, 'H']  
[]  
[T]  
STATE 10  
[A, 'B', 'C', 'D', 'E', 'F']  
[G]  
[H]  
[T]  
STATE 11  
[A, 'B', 'C', 'D', 'E', 'F', 'G']  
[]  
[H]  
[T]  
STATE 12  
[A, 'B', 'C', 'D', 'E', 'F', 'G', 'H']  
[]  
[]  
[T]  
STATE 13  
[A, 'B', 'C', 'D', 'E', 'F', 'G', 'H', T]  
[]  
[]  
[]
```

Iterations: 610
Path Length: 13
Maximum queue size: 2261
Number of states visited: 2870
Time taken: 0.206241130829 seconds