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 lengh (-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']

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']

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']

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']

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

```
['G', 'I', 'F', 'E', 'D', 'H', 'C', 'B']
['A']
                    STATE 7
['A']
['G', 'I', 'F', 'E', 'D', 'H', 'C', 'B']
                    STATE 8
['A', 'B']
['G', 'I', 'F', 'E', 'D', 'H', 'C']
                  STATE 9
['A', 'B', 'C']
['G', 'I', 'F', 'E', 'D', 'H']
STATE 10
['A', 'B', 'C']
['G', 'I', 'F', 'E', 'D']
['H']
                    STATE 11
['A', 'B', 'C', 'D']
['G', 'I', 'F', 'E']
['H']
                    STATE 12
['A', 'B', 'C', 'D', 'E']
['G', 'I', 'F']
['H']
                    STATE 13
['A', 'B', 'C', 'D', 'E', 'F']
['G', 'I']
['H']
                    STATE 14
['A', 'B', 'C', 'D', 'E', 'F']
['G']
['H', 'I']
                    STATE 15
['A', 'B', 'C', 'D', 'E', 'F', 'G']
\prod
['H', 'I']
                    STATE 16
['A', 'B', 'C', 'D', 'E', 'F', 'G']
['I']
['H']
                    STATE 17
['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H']
['I']
STATE 18
['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'I']
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
iter = 106, queue = 263, heur = -3.0, depth = 3
iter = 107, queue = 264, heur = -3.0, depth = 3
iter = 108, queue = 266, heur = -3.0, depth = 3
iter = 109, queue = 269, heur = -3.0, depth = 3
iter = 110, queue = 272, heur = -3.0, depth = 3
iter = 111, queue = 275, heur = -3.0, depth = 3
iter = 112, queue = 276, heur = -3.0, depth = 3
iter = 113, queue = 277, heur = -3.0, depth = 3
iter = 114, queue = 280, heur = -3.0, depth = 3
iter = 115, queue = 281, heur = -3.0, depth = 3
iter = 116, queue = 284, heur = -3.0, depth = 3
iter = 117, queue = 285, heur = -3.0, depth = 3
iter = 118, queue = 288, heur = -3.0, depth = 3
iter = 119, queue = 289, heur = -3.0, depth = 3
iter = 120, queue = 292, heur = -3.0, depth = 3
```

```
iter = 121, queue = 295, heur = -3.0, depth = 3
iter = 122, queue = 298, heur = -3.0, depth = 3
iter = 123, queue = 300, heur = -3.0, depth = 3
iter = 124, queue = 303, heur = -4.0, depth = 4
iter = 125, queue = 306, heur = -4.0, depth = 4
iter = 126, queue = 309, heur = -4.0, depth = 4
iter = 127, queue = 310, heur = -4.0, depth = 4
iter = 128, queue = 313, heur = -4.0, depth = 4
iter = 129, queue = 316, heur = -4.0, depth = 4
iter = 130, queue = 319, heur = -4.0, depth = 4
iter = 131, queue = 322, heur = -4.0, depth = 4
iter = 132, queue = 323, heur = -4.0, depth = 4
iter = 133, queue = 326, heur = -4.0, depth = 4
iter = 134, queue = 328, heur = -4.0, depth = 4
iter = 135, queue = 331, heur = -4.0, depth = 4
iter = 136, queue = 332, heur = -4.0, depth = 4
iter = 137, queue = 334, heur = -4.0, depth = 4
iter = 138, queue = 337, heur = -4.0, depth = 4
iter = 139, queue = 340, heur = -4.0, depth = 4
iter = 140, queue = 343, heur = -4.0, depth = 4
iter = 141, queue = 346, heur = -4.0, depth = 4
iter = 142, queue = 349, heur = -4.0, depth = 4
iter = 143, queue = 352, heur = -4.0, depth = 4
iter = 144, queue = 355, heur = -4.0, depth = 4
iter = 145, queue = 358, heur = -4.0, depth = 4
iter = 146, queue = 359, heur = -4.0, depth = 4
iter = 147, queue = 361, heur = -4.0, depth = 4
iter = 148, queue = 362, heur = -4.0, depth = 4
iter = 149, queue = 363, heur = -4.0, depth = 4
iter = 150, queue = 364, heur = -4.0, depth = 4
iter = 151, queue = 363, heur = -4.0, depth = 4
iter = 152, queue = 364, heur = -4.0, depth = 4
iter = 153, queue = 367, heur = -4.0, depth = 4
iter = 154, queue = 368, heur = -4.0, depth = 4
iter = 155, queue = 369, heur = -4.0, depth = 4
iter = 156, queue = 372, heur = -4.0, depth = 4
iter = 157, queue = 374, heur = -4.0, depth = 4
iter = 158, queue = 375, heur = -4.0, depth = 4
iter = 159, queue = 376, heur = -4.0, depth = 4
iter = 160, queue = 379, heur = -4.0, depth = 4
iter = 161, queue = 380, heur = -4.0, depth = 4
iter = 162, queue = 383, heur = -4.0, depth = 4
iter = 163, queue = 384, heur = -4.0, depth = 4
iter = 164, queue = 386, heur = -4.0, depth = 4
iter = 165, queue = 389, heur = -4.0, depth = 4
iter = 166, queue = 391, heur = -4.0, depth = 4
iter = 167, queue = 394, heur = -4.0, depth = 4
iter = 168, queue = 395, heur = -4.0, depth = 4
iter = 169, queue = 398, heur = -4.0, depth = 4
iter = 170, queue = 401, heur = -4.0, depth = 4
iter = 171, queue = 402, heur = -4.0, depth = 4
iter = 172, queue = 403, heur = -4.0, depth = 4
iter = 173, queue = 404, heur = -4.0, depth = 4
iter = 174, queue = 407, heur = -4.0, depth = 4
iter = 175, queue = 408, heur = -4.0, depth = 4
iter = 176, queue = 409, heur = -4.0, depth = 4
iter = 177, queue = 412, heur = -4.0, depth = 4
iter = 178, queue = 413, heur = -4.0, depth = 4
iter = 179, queue = 416, heur = -4.0, depth = 4
```

```
iter = 180, queue = 418, heur = -4.0, depth = 4
iter = 181, queue = 421, heur = -4.0, depth = 4
iter = 182, queue = 424, heur = -4.0, depth = 4
iter = 183, queue = 427, heur = -4.0, depth = 4
iter = 184, queue = 428, heur = -4.0, depth = 4
iter = 185, queue = 428, heur = -4.0, depth = 4
iter = 186, queue = 429, heur = -4.0, depth = 4
iter = 187, queue = 432, heur = -4.0, depth = 4
iter = 188, queue = 433, heur = -4.0, depth = 4
iter = 189, queue = 436, heur = -4.0, depth = 4
iter = 190, queue = 437, heur = -4.0, depth = 4
iter = 191, queue = 440, heur = -4.0, depth = 4
iter = 192, queue = 443, heur = -4.0, depth = 4
iter = 193, queue = 445, heur = -4.0, depth = 4
iter = 194, queue = 446, heur = -4.0, depth = 4
iter = 195, queue = 447, heur = -4.0, depth = 4
iter = 196, queue = 448, heur = -4.0, depth = 4
iter = 197, queue = 451, heur = -4.0, depth = 4
iter = 198, queue = 452, heur = -4.0, depth = 4
iter = 199, queue = 453, heur = -4.0, depth = 4
iter = 200, queue = 454, heur = -4.0, depth = 4
iter = 201, queue = 454, heur = -4.0, depth = 4
iter = 202, queue = 455, heur = -4.0, depth = 4
iter = 203, queue = 456, heur = -4.0, depth = 4
iter = 204, queue = 459, heur = -4.0, depth = 4
iter = 205, queue = 460, heur = -4.0, depth = 4
iter = 206, queue = 463, heur = -4.0, depth = 4
iter = 207, queue = 464, heur = -4.0, depth = 4
iter = 208, queue = 467, heur = -4.0, depth = 4
iter = 209, queue = 468, heur = -4.0, depth = 4
iter = 210, queue = 469, heur = -4.0, depth = 4
iter = 211, queue = 470, heur = -4.0, depth = 4
iter = 212, queue = 473, heur = -4.0, depth = 4
iter = 213, queue = 474, heur = -4.0, depth = 4
iter = 214, queue = 475, heur = -4.0, depth = 4
iter = 215, queue = 476, heur = -4.0, depth = 4
iter = 216, queue = 479, heur = -4.0, depth = 4
iter = 217, queue = 480, heur = -4.0, depth = 4
iter = 218, queue = 483, heur = -4.0, depth = 4
iter = 219, queue = 486, heur = -4.0, depth = 4
iter = 220, queue = 487, heur = -4.0, depth = 4
iter = 221, queue = 490, heur = -4.0, depth = 4
iter = 222, queue = 493, heur = -4.0, depth = 4
iter = 223, queue = 495, heur = -4.0, depth = 4
iter = 224, queue = 496, heur = -4.0, depth = 4
iter = 225, queue = 497, heur = -4.0, depth = 4
iter = 226, queue = 499, heur = -4.0, depth = 4
iter = 227, queue = 501, heur = -4.0, depth = 4
iter = 228, queue = 504, heur = -4.0, depth = 4
iter = 229, queue = 507, heur = -4.0, depth = 4
iter = 230, queue = 508, heur = -4.0, depth = 4
iter = 231, queue = 510, heur = -4.0, depth = 4
iter = 232, queue = 512, heur = -4.0, depth = 4
iter = 233, queue = 515, heur = -4.0, depth = 4
iter = 234, queue = 518, heur = -4.0, depth = 4
iter = 235, queue = 520, heur = -4.0, depth = 4
iter = 236, queue = 520, heur = -4.0, depth = 4
iter = 237, queue = 521, heur = -4.0, depth = 4
iter = 238, queue = 523, heur = -4.0, depth = 4
```

```
iter = 239, queue = 526, heur = -4.0, depth = 4
iter = 240, queue = 529, heur = -4.0, depth = 4
iter = 241, queue = 530, heur = -4.0, depth = 4
iter = 242, queue = 533, heur = -4.0, depth = 4
iter = 243, queue = 534, heur = -4.0, depth = 4
iter = 244, queue = 537, heur = -4.0, depth = 4
iter = 245, queue = 538, heur = -4.0, depth = 4
iter = 246, queue = 539, heur = -4.0, depth = 4
iter = 247, queue = 542, heur = -4.0, depth = 4
iter = 248, queue = 543, heur = -4.0, depth = 4
iter = 249, queue = 546, heur = -4.0, depth = 4
iter = 250, queue = 547, heur = -4.0, depth = 4
iter = 251, queue = 548, heur = -4.0, depth = 4
iter = 252, queue = 551, heur = -4.0, depth = 4
iter = 253, queue = 554, heur = -4.0, depth = 4
iter = 254, queue = 555, heur = -4.0, depth = 4
iter = 255, queue = 556, heur = -4.0, depth = 4
iter = 256, queue = 557, heur = -4.0, depth = 4
iter = 257, queue = 558, heur = -4.0, depth = 4
iter = 258, queue = 559, heur = -4.0, depth = 4
iter = 259, queue = 562, heur = -4.0, depth = 4
iter = 260, queue = 564, heur = -4.0, depth = 4
iter = 261, queue = 566, heur = -4.0, depth = 4
iter = 262, queue = 569, heur = -4.0, depth = 4
iter = 263, queue = 571, heur = -4.0, depth = 4
iter = 264, queue = 573, heur = -4.0, depth = 4
iter = 265, queue = 574, heur = -4.0, depth = 4
iter = 266, queue = 577, heur = -4.0, depth = 4
iter = 267, queue = 580, heur = -4.0, depth = 4
iter = 268, queue = 580, heur = -4.0, depth = 4
iter = 269, queue = 583, heur = -4.0, depth = 4
iter = 270, queue = 586, heur = -4.0, depth = 4
iter = 271, queue = 589, heur = -4.0, depth = 4
iter = 272, queue = 590, heur = -4.0, depth = 4
iter = 273, queue = 592, heur = -4.0, depth = 4
iter = 274, queue = 593, heur = -4.0, depth = 4
iter = 275, queue = 596, heur = -4.0, depth = 4
iter = 276, queue = 597, heur = -4.0, depth = 4
iter = 277, queue = 598, heur = -4.0, depth = 4
iter = 278, queue = 601, heur = -4.0, depth = 4
iter = 279, queue = 603, heur = -4.0, depth = 4
iter = 280, queue = 606, heur = -4.0, depth = 4
iter = 281, queue = 607, heur = -4.0, depth = 4
iter = 282, queue = 608, heur = -4.0, depth = 4
iter = 283, queue = 610, heur = -4.0, depth = 4
iter = 284, queue = 613, heur = -4.0, depth = 4
iter = 285, queue = 614, heur = -4.0, depth = 4
iter = 286, queue = 617, heur = -4.0, depth = 4
iter = 287, queue = 619, heur = -4.0, depth = 4
iter = 288, queue = 620, heur = -4.0, depth = 4
iter = 289, queue = 621, heur = -4.0, depth = 4
iter = 290, queue = 622, heur = -4.0, depth = 4
iter = 291, queue = 625, heur = -4.0, depth = 4
iter = 292, queue = 626, heur = -4.0, depth = 4
iter = 293, queue = 629, heur = -4.0, depth = 4
iter = 294, queue = 632, heur = -4.0, depth = 4
iter = 295, queue = 635, heur = -4.0, depth = 4
iter = 296, queue = 638, heur = -4.0, depth = 4
iter = 297, queue = 639, heur = -4.0, depth = 4
```

```
iter = 298, queue = 640, heur = -4.0, depth = 4
iter = 299, queue = 641, heur = -4.0, depth = 4
iter = 300, queue = 643, heur = -4.0, depth = 4
iter = 301, queue = 646, heur = -4.0, depth = 4
iter = 302, queue = 647, heur = -4.0, depth = 4
iter = 303, queue = 648, heur = -4.0, depth = 4
iter = 304, queue = 649, heur = -4.0, depth = 4
iter = 305, queue = 650, heur = -4.0, depth = 4
iter = 306, queue = 651, heur = -4.0, depth = 4
iter = 307, queue = 651, heur = -4.0, depth = 4
iter = 308, queue = 653, heur = -4.0, depth = 4
iter = 309, queue = 655, heur = -4.0, depth = 4
iter = 310, queue = 658, heur = -4.0, depth = 4
iter = 311, queue = 659, heur = -4.0, depth = 4
iter = 312, queue = 660, heur = -4.0, depth = 4
iter = 313, queue = 663, heur = -4.0, depth = 4
iter = 314, queue = 663, heur = -4.0, depth = 4
iter = 315, queue = 664, heur = -4.0, depth = 4
iter = 316, queue = 665, heur = -4.0, depth = 4
iter = 317, queue = 665, heur = -4.0, depth = 4
iter = 318, queue = 668, heur = -4.0, depth = 4
iter = 319, queue = 671, heur = -4.0, depth = 4
iter = 320, queue = 673, heur = -4.0, depth = 4
iter = 321, queue = 674, heur = -4.0, depth = 4
iter = 322, queue = 675, heur = -4.0, depth = 4
iter = 323, queue = 676, heur = -4.0, depth = 4
iter = 324, queue = 677, heur = -4.0, depth = 4
iter = 325, queue = 680, heur = -4.0, depth = 4
iter = 326, queue = 682, heur = -4.0, depth = 4
iter = 327, queue = 684, heur = -4.0, depth = 4
iter = 328, queue = 687, heur = -4.0, depth = 4
iter = 329, queue = 688, heur = -4.0, depth = 4
iter = 330, queue = 689, heur = -4.0, depth = 4
iter = 331, queue = 690, heur = -4.0, depth = 4
iter = 332, queue = 691, heur = -4.0, depth = 4
iter = 333, queue = 693, heur = -4.0, depth = 4
iter = 334, queue = 694, heur = -4.0, depth = 4
iter = 335, queue = 695, heur = -4.0, depth = 4
iter = 336, queue = 697, heur = -4.0, depth = 4
iter = 337, queue = 699, heur = -4.0, depth = 4
iter = 338, queue = 700, heur = -4.0, depth = 4
iter = 339, queue = 702, heur = -4.0, depth = 4
iter = 340, queue = 705, heur = -4.0, depth = 4
iter = 341, queue = 706, heur = -4.0, depth = 4
iter = 342, queue = 707, heur = -4.0, depth = 4
iter = 343, queue = 710, heur = -4.0, depth = 4
iter = 344, queue = 711, heur = -4.0, depth = 4
iter = 345, queue = 712, heur = -4.0, depth = 4
iter = 346, queue = 713, heur = -4.0, depth = 4
iter = 347, queue = 714, heur = -4.0, depth = 4
iter = 348, queue = 715, heur = -4.0, depth = 4
iter = 349, queue = 714, heur = -4.0, depth = 4
iter = 350, queue = 717, heur = -4.0, depth = 4
iter = 351, queue = 718, heur = -4.0, depth = 4
iter = 352, queue = 719, heur = -4.0, depth = 4
iter = 353, queue = 722, heur = -4.0, depth = 4
iter = 354, queue = 723, heur = -4.0, depth = 4
iter = 355, queue = 723, heur = -4.0, depth = 4
iter = 356, queue = 724, heur = -4.0, depth = 4
```

```
iter = 357, queue = 725, heur = -4.0, depth = 4
iter = 358, queue = 727, heur = -4.0, depth = 4
iter = 359, queue = 730, heur = -4.0, depth = 4
iter = 360, queue = 731, heur = -4.0, depth = 4
iter = 361, queue = 732, heur = -4.0, depth = 4
iter = 362, queue = 735, heur = -4.0, depth = 4
iter = 363, queue = 736, heur = -4.0, depth = 4
iter = 364, queue = 737, heur = -4.0, depth = 4
iter = 365, queue = 740, heur = -4.0, depth = 4
iter = 366, queue = 743, heur = -4.0, depth = 4
iter = 367, queue = 746, heur = -4.0, depth = 4
iter = 368, queue = 749, heur = -4.0, depth = 4
iter = 369, queue = 749, heur = -4.0, depth = 4
iter = 370, queue = 750, heur = -4.0, depth = 4
iter = 371, queue = 752, heur = -4.0, depth = 4
iter = 372, queue = 755, heur = -4.0, depth = 4
iter = 373, queue = 758, heur = -4.0, depth = 4
iter = 374, queue = 761, heur = -4.0, depth = 4
iter = 375, queue = 762, heur = -4.0, depth = 4
iter = 376, queue = 765, heur = -4.0, depth = 4
iter = 377, queue = 767, heur = -4.0, depth = 4
iter = 378, queue = 768, heur = -4.0, depth = 4
iter = 379, queue = 768, heur = -4.0, depth = 4
iter = 380, queue = 769, heur = -4.0, depth = 4
iter = 381, queue = 772, heur = -4.0, depth = 4
iter = 382, queue = 773, heur = -4.0, depth = 4
iter = 383, queue = 773, heur = -4.0, depth = 4
iter = 384, queue = 776, heur = -4.0, depth = 4
iter = 385, queue = 777, heur = -4.0, depth = 4
iter = 386, queue = 778, heur = -4.0, depth = 4
iter = 387, queue = 781, heur = -4.0, depth = 4
iter = 388, queue = 782, heur = -4.0, depth = 4
iter = 389, queue = 784, heur = -4.0, depth = 4
iter = 390, queue = 785, heur = -4.0, depth = 4
iter = 391, queue = 787, heur = -4.0, depth = 4
iter = 392, queue = 789, heur = -4.0, depth = 4
iter = 393, queue = 790, heur = -4.0, depth = 4
iter = 394, queue = 791, heur = -4.0, depth = 4
iter = 395, queue = 794, heur = -4.0, depth = 4
iter = 396, queue = 797, heur = -4.0, depth = 4
iter = 397, queue = 798, heur = -4.0, depth = 4
iter = 398, queue = 799, heur = -4.0, depth = 4
iter = 399, queue = 801, heur = -4.0, depth = 4
iter = 400, queue = 801, heur = -4.0, depth = 4
iter = 401, queue = 802, heur = -4.0, depth = 4
iter = 402, queue = 805, heur = -4.0, depth = 4
iter = 403, queue = 806, heur = -4.0, depth = 4
iter = 404, queue = 807, heur = -4.0, depth = 4
iter = 405, queue = 808, heur = -4.0, depth = 4
iter = 406, queue = 811, heur = -4.0, depth = 4
iter = 407, queue = 810, heur = -4.0, depth = 4
iter = 408, queue = 813, heur = -4.0, depth = 4
iter = 409, queue = 816, heur = -4.0, depth = 4
iter = 410, queue = 818, heur = -4.0, depth = 4
iter = 411, queue = 821, heur = -4.0, depth = 4
iter = 412, queue = 823, heur = -4.0, depth = 4
iter = 413, queue = 824, heur = -4.0, depth = 4
iter = 414, queue = 827, heur = -4.0, depth = 4
iter = 415, queue = 828, heur = -4.0, depth = 4
```

```
iter = 416, queue = 830, heur = -4.0, depth = 4
iter = 417, queue = 831, heur = -4.0, depth = 4
iter = 418, queue = 832, heur = -4.0, depth = 4
iter = 419, queue = 833, heur = -4.0, depth = 4
iter = 420, queue = 835, heur = -4.0, depth = 4
iter = 421, queue = 837, heur = -4.0, depth = 4
iter = 422, queue = 839, heur = -4.0, depth = 4
iter = 423, queue = 842, heur = -4.0, depth = 4
iter = 424, queue = 843, heur = -4.0, depth = 4
iter = 425, queue = 846, heur = -4.0, depth = 4
iter = 426, queue = 847, heur = -4.0, depth = 4
iter = 427, queue = 848, heur = -5.0, depth = 5
iter = 428, queue = 851, heur = -5.0, depth = 5
iter = 429, queue = 852, heur = -5.0, depth = 5
iter = 430, queue = 853, heur = -5.0, depth = 5
iter = 431, queue = 854, heur = -5.0, depth = 5
iter = 432, queue = 855, heur = -5.0, depth = 5
iter = 433, queue = 858, heur = -5.0, depth = 5
iter = 434, queue = 861, heur = -5.0, depth = 5
iter = 435, queue = 864, heur = -5.0, depth = 5
iter = 436, queue = 865, heur = -5.0, depth = 5
iter = 437, queue = 868, heur = -5.0, depth = 5
iter = 438, queue = 870, heur = -5.0, depth = 5
iter = 439, queue = 871, heur = -5.0, depth = 5
iter = 440, queue = 874, heur = -5.0, depth = 5
iter = 441, queue = 873, heur = -5.0, depth = 5
iter = 442, queue = 874, heur = -5.0, depth = 5
iter = 443, queue = 877, heur = -5.0, depth = 5
iter = 444, queue = 878, heur = -5.0, depth = 5
iter = 445, queue = 879, heur = -5.0, depth = 5
iter = 446, queue = 882, heur = -5.0, depth = 5
iter = 447, queue = 883, heur = -5.0, depth = 5
iter = 448, queue = 884, heur = -5.0, depth = 5
iter = 449, queue = 885, heur = -5.0, depth = 5
iter = 450, queue = 888, heur = -5.0, depth = 5
iter = 451, queue = 889, heur = -5.0, depth = 5
iter = 452, queue = 892, heur = -5.0, depth = 5
iter = 453, queue = 895, heur = -5.0, depth = 5
iter = 454, queue = 898, heur = -5.0, depth = 5
iter = 455, queue = 901, heur = -5.0, depth = 5
iter = 456, queue = 904, heur = -5.0, depth = 5
iter = 457, queue = 907, heur = -5.0, depth = 5
iter = 458, queue = 908, heur = -5.0, depth = 5
iter = 459, queue = 909, heur = -5.0, depth = 5
iter = 460, queue = 910, heur = -5.0, depth = 5
iter = 461, queue = 913, heur = -5.0, depth = 5
iter = 462, queue = 914, heur = -5.0, depth = 5
iter = 463, queue = 915, heur = -5.0, depth = 5
iter = 464, queue = 917, heur = -5.0, depth = 5
iter = 465, queue = 919, heur = -5.0, depth = 5
iter = 466, queue = 920, heur = -5.0, depth = 5
iter = 467, queue = 920, heur = -5.0, depth = 5
iter = 468, queue = 921, heur = -5.0, depth = 5
iter = 469, queue = 922, heur = -5.0, depth = 5
iter = 470, queue = 925, heur = -5.0, depth = 5
iter = 471, queue = 926, heur = -5.0, depth = 5
iter = 472, queue = 927, heur = -5.0, depth = 5
iter = 473, queue = 930, heur = -5.0, depth = 5
iter = 474, queue = 931, heur = -5.0, depth = 5
```

```
iter = 475, queue = 934, heur = -5.0, depth = 5
iter = 476, queue = 937, heur = -5.0, depth = 5
iter = 477, queue = 938, heur = -5.0, depth = 5
iter = 478, queue = 941, heur = -5.0, depth = 5
iter = 479, queue = 942, heur = -5.0, depth = 5
iter = 480, queue = 944, heur = -5.0, depth = 5
iter = 481, queue = 945, heur = -5.0, depth = 5
iter = 482, queue = 948, heur = -5.0, depth = 5
iter = 483, queue = 951, heur = -5.0, depth = 5
iter = 484, queue = 952, heur = -5.0, depth = 5
iter = 485, queue = 953, heur = -5.0, depth = 5
iter = 486, queue = 954, heur = -5.0, depth = 5
iter = 487, queue = 955, heur = -5.0, depth = 5
iter = 488, queue = 956, heur = -5.0, depth = 5
iter = 489, queue = 959, heur = -5.0, depth = 5
iter = 490, queue = 960, heur = -5.0, depth = 5
iter = 491, queue = 961, heur = -5.0, depth = 5
iter = 492, queue = 962, heur = -5.0, depth = 5
iter = 493, queue = 965, heur = -5.0, depth = 5
iter = 494, queue = 966, heur = -5.0, depth = 5
iter = 495, queue = 968, heur = -5.0, depth = 5
iter = 496, queue = 969, heur = -5.0, depth = 5
iter = 497, queue = 972, heur = -5.0, depth = 5
iter = 498, queue = 973, heur = -5.0, depth = 5
iter = 499, queue = 974, heur = -5.0, depth = 5
iter = 500, queue = 975, heur = -5.0, depth = 5
iter = 501, queue = 978, heur = -5.0, depth = 5
iter = 502, queue = 981, heur = -5.0, depth = 5
iter = 503, queue = 982, heur = -5.0, depth = 5
iter = 504, queue = 983, heur = -5.0, depth = 5
iter = 505, queue = 984, heur = -5.0, depth = 5
iter = 506, queue = 987, heur = -5.0, depth = 5
iter = 507, queue = 988, heur = -5.0, depth = 5
iter = 508, queue = 989, heur = -5.0, depth = 5
iter = 509, queue = 992, heur = -5.0, depth = 5
iter = 510, queue = 994, heur = -5.0, depth = 5
iter = 511, queue = 995, heur = -5.0, depth = 6
iter = 512, queue = 996, heur = -5.0, depth = 5
iter = 513, queue = 997, heur = -5.0, depth = 5
iter = 514, queue = 1000, heur = -5.0, depth = 5
iter = 515, queue = 1003, heur = -5.0, depth = 7
iter = 516, queue = 1004, heur = -5.0, depth = 5
iter = 517, queue = 1007, heur = -5.0, depth = 5
iter = 518, queue = 1008, heur = -5.0, depth = 5
iter = 519, queue = 1009, heur = -5.0, depth = 5
iter = 520, queue = 1010, heur = -5.0, depth = 5
iter = 521, queue = 1011, heur = -5.0, depth = 5
iter = 522, queue = 1013, heur = -5.0, depth = 5
iter = 523, queue = 1015, heur = -5.0, depth = 5
iter = 524, queue = 1016, heur = -5.0, depth = 5
iter = 525, queue = 1017, heur = -5.0, depth = 5
iter = 526, queue = 1018, heur = -5.0, depth = 5
iter = 527, queue = 1021, heur = -5.0, depth = 5
iter = 528, queue = 1024, heur = -5.0, depth = 5
iter = 529, queue = 1024, heur = -5.0, depth = 5
iter = 530, queue = 1027, heur = -5.0, depth = 5
iter = 531, queue = 1027, heur = -5.0, depth = 5
iter = 532, queue = 1028, heur = -5.0, depth = 5
iter = 533, queue = 1029, heur = -5.0, depth = 5
```

```
iter = 534, queue = 1030, heur = -5.0, depth = 5
iter = 535, queue = 1032, heur = -5.0, depth = 5
iter = 536, queue = 1033, heur = -5.0, depth = 5
iter = 537, queue = 1034, heur = -5.0, depth = 5
iter = 538, queue = 1036, heur = -5.0, depth = 5
iter = 539, queue = 1037, heur = -5.0, depth = 5
iter = 540, queue = 1039, heur = -5.0, depth = 5
iter = 541, queue = 1040, heur = -5.0, depth = 5
iter = 542, queue = 1043, heur = -5.0, depth = 5
iter = 543, queue = 1046, heur = -5.0, depth = 5
iter = 544, queue = 1047, heur = -5.0, depth = 5
iter = 545, queue = 1048, heur = -5.0, depth = 5
iter = 546, queue = 1049, heur = -5.0, depth = 5
iter = 547, queue = 1050, heur = -5.0, depth = 5
iter = 548, queue = 1051, heur = -5.0, depth = 5
iter = 549, queue = 1054, heur = -5.0, depth = 5
iter = 550, queue = 1054, heur = -5.0, depth = 5
iter = 551, queue = 1055, heur = -5.0, depth = 5
iter = 552, queue = 1057, heur = -5.0, depth = 5
iter = 553, queue = 1058, heur = -5.0, depth = 5
iter = 554, queue = 1061, heur = -5.0, depth = 5
iter = 555, queue = 1063, heur = -5.0, depth = 5
iter = 556, queue = 1064, heur = -5.0, depth = 5
iter = 557, queue = 1067, heur = -5.0, depth = 5
iter = 558, queue = 1068, heur = -5.0, depth = 5
iter = 559, queue = 1069, heur = -5.0, depth = 5
iter = 560, queue = 1072, heur = -5.0, depth = 5
iter = 561, queue = 1073, heur = -5.0, depth = 5
iter = 562, queue = 1074, heur = -5.0, depth = 5
iter = 563, queue = 1075, heur = -5.0, depth = 5
iter = 564, queue = 1076, heur = -5.0, depth = 5
iter = 565, queue = 1079, heur = -5.0, depth = 5
iter = 566, queue = 1080, heur = -5.0, depth = 5
iter = 567, queue = 1081, heur = -5.0, depth = 5
iter = 568, queue = 1084, heur = -5.0, depth = 5
iter = 569, queue = 1087, heur = -5.0, depth = 5
iter = 570, queue = 1089, heur = -5.0, depth = 5
iter = 571, queue = 1091, heur = -5.0, depth = 5
iter = 572, queue = 1092, heur = -5.0, depth = 5
iter = 573, queue = 1093, heur = -5.0, depth = 5
iter = 574, queue = 1094, heur = -5.0, depth = 5
iter = 575, queue = 1097, heur = -5.0, depth = 5
iter = 576, queue = 1100, heur = -5.0, depth = 6
iter = 577, queue = 1101, heur = -5.0, depth = 5
iter = 578, queue = 1104, heur = -5.0, depth = 5
iter = 579, queue = 1104, heur = -5.0, depth = 5
iter = 580, queue = 1105, heur = -5.0, depth = 5
iter = 581, queue = 1106, heur = -5.0, depth = 5
iter = 582, queue = 1107, heur = -5.0, depth = 5
iter = 583, queue = 1108, heur = -5.0, depth = 5
iter = 584, queue = 1111, heur = -5.0, depth = 5
iter = 585, queue = 1113, heur = -5.0, depth = 5
iter = 586, queue = 1115, heur = -5.0, depth = 5
iter = 587, queue = 1117, heur = -5.0, depth = 5
iter = 588, queue = 1118, heur = -5.0, depth = 5
iter = 589, queue = 1121, heur = -5.0, depth = 5
iter = 590, queue = 1121, heur = -5.0, depth = 5
iter = 591, queue = 1122, heur = -5.0, depth = 5
iter = 592, queue = 1123, heur = -5.0, depth = 5
```

```
iter = 593, queue = 1124, heur = -5.0, depth = 5
iter = 594, queue = 1127, heur = -5.0, depth = 5
iter = 595, queue = 1130, heur = -5.0, depth = 5
iter = 596, queue = 1131, heur = -5.0, depth = 5
iter = 597, queue = 1134, heur = -5.0, depth = 5
iter = 598, queue = 1135, heur = -5.0, depth = 5
iter = 599, queue = 1138, heur = -5.0, depth = 5
iter = 600, queue = 1139, heur = -5.0, depth = 5
iter = 601, queue = 1140, heur = -5.0, depth = 5
iter = 602, queue = 1141, heur = -5.0, depth = 5
iter = 603, queue = 1144, heur = -5.0, depth = 5
iter = 604, queue = 1144, heur = -5.0, depth = 5
iter = 605, queue = 1147, heur = -5.0, depth = 5
iter = 606, queue = 1146, heur = -5.0, depth = 5
iter = 607, queue = 1148, heur = -5.0, depth = 5
iter = 608, queue = 1151, heur = -5.0, depth = 5
iter = 609, queue = 1154, heur = -5.0, depth = 5
iter = 610, queue = 1157, heur = -5.0, depth = 5
iter = 611, queue = 1158, heur = -5.0, depth = 5
iter = 612, queue = 1159, heur = -5.0, depth = 5
iter = 613, queue = 1162, heur = -5.0, depth = 5
iter = 614, queue = 1163, heur = -5.0, depth = 5
iter = 615, queue = 1165, heur = -5.0, depth = 5
iter = 616, queue = 1168, heur = -5.0, depth = 5
iter = 617, queue = 1169, heur = -5.0, depth = 5
iter = 618, queue = 1172, heur = -5.0, depth = 5
iter = 619, queue = 1173, heur = -5.0, depth = 5
iter = 620, queue = 1176, heur = -5.0, depth = 5
iter = 621, queue = 1179, heur = -5.0, depth = 5
iter = 622, queue = 1182, heur = -5.0, depth = 5
iter = 623, queue = 1185, heur = -5.0, depth = 5
iter = 624, queue = 1188, heur = -5.0, depth = 5
iter = 625, queue = 1191, heur = -5.0, depth = 5
iter = 626, queue = 1194, heur = -5.0, depth = 5
iter = 627, queue = 1195, heur = -5.0, depth = 5
iter = 628, queue = 1195, heur = -5.0, depth = 5
iter = 629, queue = 1198, heur = -5.0, depth = 5
iter = 630, queue = 1201, heur = -5.0, depth = 5
iter = 631, queue = 1202, heur = -5.0, depth = 5
iter = 632, queue = 1203, heur = -5.0, depth = 5
iter = 633, queue = 1206, heur = -5.0, depth = 5
iter = 634, queue = 1207, heur = -5.0, depth = 5
iter = 635, queue = 1208, heur = -5.0, depth = 5
iter = 636, queue = 1211, heur = -5.0, depth = 5
iter = 637, queue = 1214, heur = -5.0, depth = 5
iter = 638, queue = 1214, heur = -5.0, depth = 5
iter = 639, queue = 1217, heur = -5.0, depth = 5
iter = 640, queue = 1217, heur = -5.0, depth = 5
iter = 641, queue = 1218, heur = -5.0, depth = 5
iter = 642, queue = 1219, heur = -5.0, depth = 5
iter = 643, queue = 1222, heur = -5.0, depth = 5
iter = 644, queue = 1225, heur = -5.0, depth = 5
iter = 645, queue = 1225, heur = -5.0, depth = 5
iter = 646, queue = 1226, heur = -5.0, depth = 5
iter = 647, queue = 1227, heur = -5.0, depth = 5
iter = 648, queue = 1228, heur = -5.0, depth = 5
iter = 649, queue = 1229, heur = -5.0, depth = 5
iter = 650, queue = 1232, heur = -5.0, depth = 5
iter = 651, queue = 1234, heur = -5.0, depth = 5
```

```
iter = 652, queue = 1236, heur = -5.0, depth = 5
iter = 653, queue = 1239, heur = -5.0, depth = 5
iter = 654, queue = 1240, heur = -5.0, depth = 5
iter = 655, queue = 1242, heur = -5.0, depth = 5
iter = 656, queue = 1245, heur = -5.0, depth = 5
iter = 657, queue = 1246, heur = -5.0, depth = 5
iter = 658, queue = 1247, heur = -5.0, depth = 5
iter = 659, queue = 1248, heur = -5.0, depth = 5
iter = 660, queue = 1249, heur = -5.0, depth = 5
iter = 661, queue = 1251, heur = -5.0, depth = 5
iter = 662, queue = 1252, heur = -5.0, depth = 5
iter = 663, queue = 1254, heur = -5.0, depth = 5
iter = 664, queue = 1254, heur = -5.0, depth = 5
iter = 665, queue = 1257, heur = -5.0, depth = 5
iter = 666, queue = 1260, heur = -5.0, depth = 5
iter = 667, queue = 1263, heur = -5.0, depth = 5
iter = 668, queue = 1265, heur = -5.0, depth = 5
iter = 669, queue = 1266, heur = -5.0, depth = 5
iter = 670, queue = 1267, heur = -5.0, depth = 5
iter = 671, queue = 1269, heur = -5.0, depth = 5
iter = 672, queue = 1269, heur = -5.0, depth = 5
iter = 673, queue = 1272, heur = -5.0, depth = 5
iter = 674, queue = 1275, heur = -5.0, depth = 5
iter = 675, queue = 1277, heur = -5.0, depth = 5
iter = 676, queue = 1280, heur = -5.0, depth = 5
iter = 677, queue = 1281, heur = -5.0, depth = 5
iter = 678, queue = 1282, heur = -5.0, depth = 5
iter = 679, queue = 1283, heur = -5.0, depth = 5
iter = 680, queue = 1283, heur = -5.0, depth = 5
iter = 681, queue = 1284, heur = -5.0, depth = 5
iter = 682, queue = 1285, heur = -5.0, depth = 5
iter = 683, queue = 1288, heur = -5.0, depth = 5
iter = 684, queue = 1289, heur = -5.0, depth = 5
iter = 685, queue = 1291, heur = -5.0, depth = 5
iter = 686, queue = 1291, heur = -5.0, depth = 5
iter = 687, queue = 1294, heur = -5.0, depth = 5
iter = 688, queue = 1295, heur = -5.0, depth = 5
iter = 689, queue = 1296, heur = -5.0, depth = 5
iter = 690, queue = 1299, heur = -5.0, depth = 5
iter = 691, queue = 1300, heur = -5.0, depth = 5
iter = 692, queue = 1301, heur = -5.0, depth = 5
iter = 693, queue = 1302, heur = -5.0, depth = 5
iter = 694, queue = 1305, heur = -5.0, depth = 5
iter = 695, queue = 1306, heur = -5.0, depth = 5
iter = 696, queue = 1307, heur = -5.0, depth = 5
iter = 697, queue = 1308, heur = -5.0, depth = 5
iter = 698, queue = 1311, heur = -5.0, depth = 5
iter = 699, queue = 1312, heur = -5.0, depth = 5
iter = 700, queue = 1315, heur = -5.0, depth = 5
iter = 701, queue = 1317, heur = -5.0, depth = 5
iter = 702, queue = 1318, heur = -5.0, depth = 5
iter = 703, queue = 1319, heur = -5.0, depth = 5
iter = 704, queue = 1322, heur = -5.0, depth = 5
iter = 705, queue = 1323, heur = -5.0, depth = 5
iter = 706, queue = 1324, heur = -5.0, depth = 5
iter = 707, queue = 1324, heur = -5.0, depth = 5
iter = 708, queue = 1324, heur = -5.0, depth = 5
iter = 709, queue = 1325, heur = -5.0, depth = 5
iter = 710, queue = 1328, heur = -5.0, depth = 5
```

```
iter = 711, queue = 1330, heur = -5.0, depth = 5
iter = 712, queue = 1333, heur = -5.0, depth = 5
iter = 713, queue = 1335, heur = -5.0, depth = 5
iter = 714, queue = 1336, heur = -5.0, depth = 5
iter = 715, queue = 1337, heur = -5.0, depth = 5
iter = 716, queue = 1338, heur = -5.0, depth = 5
iter = 717, queue = 1340, heur = -5.0, depth = 5
iter = 718, queue = 1343, heur = -5.0, depth = 5
iter = 719, queue = 1343, heur = -5.0, depth = 5
iter = 720, queue = 1342, heur = -5.0, depth = 5
iter = 721, queue = 1345, heur = -5.0, depth = 5
iter = 722, queue = 1348, heur = -5.0, depth = 5
iter = 723, queue = 1351, heur = -5.0, depth = 5
iter = 724, queue = 1352, heur = -5.0, depth = 5
iter = 725, queue = 1354, heur = -5.0, depth = 5
iter = 726, queue = 1356, heur = -5.0, depth = 5
iter = 727, queue = 1357, heur = -5.0, depth = 5
iter = 728, queue = 1358, heur = -5.0, depth = 5
iter = 729, queue = 1361, heur = -5.0, depth = 5
iter = 730, queue = 1364, heur = -5.0, depth = 5
iter = 731, queue = 1363, heur = -5.0, depth = 5
iter = 732, queue = 1366, heur = -5.0, depth = 5
iter = 733, queue = 1369, heur = -5.0, depth = 5
iter = 734, queue = 1370, heur = -5.0, depth = 5
iter = 735, queue = 1373, heur = -5.0, depth = 5
iter = 736, queue = 1375, heur = -5.0, depth = 5
iter = 737, queue = 1378, heur = -5.0, depth = 5
iter = 738, queue = 1379, heur = -5.0, depth = 5
iter = 739, queue = 1380, heur = -5.0, depth = 5
iter = 740, queue = 1381, heur = -5.0, depth = 5
iter = 741, queue = 1384, heur = -5.0, depth = 5
iter = 742, queue = 1387, heur = -5.0, depth = 5
iter = 743, queue = 1390, heur = -5.0, depth = 5
iter = 744, queue = 1392, heur = -5.0, depth = 5
iter = 745, queue = 1394, heur = -5.0, depth = 5
iter = 746, queue = 1397, heur = -5.0, depth = 5
iter = 747, queue = 1400, heur = -5.0, depth = 5
iter = 748, queue = 1401, heur = -5.0, depth = 5
iter = 749, queue = 1402, heur = -5.0, depth = 5
iter = 750, queue = 1405, heur = -5.0, depth = 5
iter = 751, queue = 1407, heur = -5.0, depth = 5
iter = 752, queue = 1410, heur = -5.0, depth = 5
iter = 753, queue = 1412, heur = -5.0, depth = 5
iter = 754, queue = 1413, heur = -5.0, depth = 5
iter = 755, queue = 1414, heur = -5.0, depth = 5
iter = 756, queue = 1416, heur = -5.0, depth = 5
iter = 757, queue = 1417, heur = -5.0, depth = 5
iter = 758, queue = 1418, heur = -5.0, depth = 5
iter = 759, queue = 1419, heur = -5.0, depth = 5
iter = 760, queue = 1420, heur = -5.0, depth = 5
iter = 761, queue = 1423, heur = -5.0, depth = 5
iter = 762, queue = 1426, heur = -5.0, depth = 5
iter = 763, queue = 1427, heur = -5.0, depth = 5
iter = 764, queue = 1429, heur = -5.0, depth = 5
iter = 765, queue = 1431, heur = -5.0, depth = 5
iter = 766, queue = 1434, heur = -5.0, depth = 5
iter = 767, queue = 1436, heur = -5.0, depth = 5
iter = 768, queue = 1437, heur = -5.0, depth = 5
iter = 769, queue = 1438, heur = -5.0, depth = 5
```

```
iter = 770, queue = 1440, heur = -5.0, depth = 5
iter = 771, queue = 1443, heur = -5.0, depth = 5
iter = 772, queue = 1444, heur = -5.0, depth = 5
iter = 773, queue = 1445, heur = -5.0, depth = 5
iter = 774, queue = 1446, heur = -5.0, depth = 5
iter = 775, queue = 1447, heur = -5.0, depth = 5
iter = 776, queue = 1448, heur = -5.0, depth = 5
iter = 777, queue = 1451, heur = -5.0, depth = 5
iter = 778, queue = 1454, heur = -5.0, depth = 5
iter = 779, queue = 1453, heur = -5.0, depth = 5
iter = 780, queue = 1454, heur = -5.0, depth = 5
iter = 781, queue = 1457, heur = -5.0, depth = 5
iter = 782, queue = 1456, heur = -5.0, depth = 5
iter = 783, queue = 1457, heur = -5.0, depth = 5
iter = 784, queue = 1458, heur = -5.0, depth = 5
iter = 785, queue = 1460, heur = -5.0, depth = 5
iter = 786, queue = 1462, heur = -5.0, depth = 5
iter = 787, queue = 1465, heur = -5.0, depth = 5
iter = 788, queue = 1466, heur = -5.0, depth = 5
iter = 789, queue = 1468, heur = -5.0, depth = 5
iter = 790, queue = 1471, heur = -5.0, depth = 5
iter = 791, queue = 1474, heur = -5.0, depth = 5
iter = 792, queue = 1477, heur = -5.0, depth = 5
iter = 793, queue = 1479, heur = -5.0, depth = 5
iter = 794, queue = 1480, heur = -5.0, depth = 5
iter = 795, queue = 1481, heur = -5.0, depth = 5
iter = 796, queue = 1482, heur = -5.0, depth = 5
iter = 797, queue = 1483, heur = -5.0, depth = 5
iter = 798, queue = 1484, heur = -5.0, depth = 5
iter = 799, queue = 1486, heur = -5.0, depth = 5
iter = 800, queue = 1485, heur = -5.0, depth = 5
iter = 801, queue = 1486, heur = -5.0, depth = 5
iter = 802, queue = 1487, heur = -5.0, depth = 5
iter = 803, queue = 1490, heur = -5.0, depth = 5
iter = 804, queue = 1493, heur = -5.0, depth = 5
iter = 805, queue = 1496, heur = -5.0, depth = 5
iter = 806, queue = 1497, heur = -5.0, depth = 5
iter = 807, queue = 1498, heur = -5.0, depth = 5
iter = 808, queue = 1499, heur = -5.0, depth = 5
iter = 809, queue = 1499, heur = -5.0, depth = 5
iter = 810, queue = 1500, heur = -5.0, depth = 5
iter = 811, queue = 1503, heur = -5.0, depth = 5
iter = 812, queue = 1505, heur = -5.0, depth = 5
iter = 813, queue = 1508, heur = -5.0, depth = 5
iter = 814, queue = 1511, heur = -5.0, depth = 5
iter = 815, queue = 1512, heur = -5.0, depth = 5
iter = 816, queue = 1515, heur = -5.0, depth = 5
iter = 817, queue = 1516, heur = -5.0, depth = 5
iter = 818, queue = 1519, heur = -5.0, depth = 5
iter = 819, queue = 1522, heur = -5.0, depth = 5
iter = 820, queue = 1523, heur = -5.0, depth = 5
iter = 821, queue = 1524, heur = -5.0, depth = 5
iter = 822, queue = 1526, heur = -5.0, depth = 5
iter = 823, queue = 1529, heur = -5.0, depth = 5
iter = 824, queue = 1529, heur = -5.0, depth = 5
iter = 825, queue = 1532, heur = -5.0, depth = 6
iter = 826, queue = 1533, heur = -5.0, depth = 5
iter = 827, queue = 1534, heur = -5.0, depth = 5
iter = 828, queue = 1537, heur = -5.0, depth = 5
```

```
iter = 829, queue = 1538, heur = -5.0, depth = 5
iter = 830, queue = 1540, heur = -5.0, depth = 5
iter = 831, queue = 1541, heur = -5.0, depth = 5
iter = 832, queue = 1543, heur = -5.0, depth = 5
iter = 833, queue = 1544, heur = -5.0, depth = 5
iter = 834, queue = 1546, heur = -5.0, depth = 5
iter = 835, queue = 1547, heur = -5.0, depth = 5
iter = 836, queue = 1549, heur = -5.0, depth = 5
iter = 837, queue = 1552, heur = -5.0, depth = 5
iter = 838, queue = 1553, heur = -5.0, depth = 5
iter = 839, queue = 1554, heur = -5.0, depth = 5
iter = 840, queue = 1556, heur = -5.0, depth = 5
iter = 841, queue = 1556, heur = -5.0, depth = 5
iter = 842, queue = 1556, heur = -5.0, depth = 5
iter = 843, queue = 1557, heur = -5.0, depth = 5
iter = 844, queue = 1558, heur = -5.0, depth = 5
iter = 845, queue = 1559, heur = -5.0, depth = 6
iter = 846, queue = 1560, heur = -5.0, depth = 5
iter = 847, queue = 1563, heur = -5.0, depth = 5
iter = 848, queue = 1565, heur = -5.0, depth = 5
iter = 849, queue = 1568, heur = -5.0, depth = 5
iter = 850, queue = 1571, heur = -5.0, depth = 5
iter = 851, queue = 1572, heur = -5.0, depth = 5
iter = 852, queue = 1573, heur = -5.0, depth = 5
iter = 853, queue = 1576, heur = -5.0, depth = 5
iter = 854, queue = 1579, heur = -5.0, depth = 5
iter = 855, queue = 1581, heur = -5.0, depth = 5
iter = 856, queue = 1582, heur = -5.0, depth = 5
iter = 857, queue = 1585, heur = -5.0, depth = 5
iter = 858, queue = 1588, heur = -5.0, depth = 5
iter = 859, queue = 1591, heur = -5.0, depth = 5
iter = 860, queue = 1594, heur = -5.0, depth = 5
iter = 861, queue = 1595, heur = -5.0, depth = 5
iter = 862, queue = 1596, heur = -5.0, depth = 5
iter = 863, queue = 1597, heur = -5.0, depth = 5
iter = 864, queue = 1599, heur = -5.0, depth = 5
iter = 865, queue = 1602, heur = -5.0, depth = 5
iter = 866, queue = 1603, heur = -5.0, depth = 5
iter = 867, queue = 1604, heur = -5.0, depth = 5
iter = 868, queue = 1605, heur = -5.0, depth = 5
iter = 869, queue = 1604, heur = -5.0, depth = 5
iter = 870, queue = 1605, heur = -5.0, depth = 5
iter = 871, queue = 1606, heur = -5.0, depth = 5
iter = 872, queue = 1609, heur = -5.0, depth = 5
iter = 873, queue = 1610, heur = -5.0, depth = 5
iter = 874, queue = 1611, heur = -5.0, depth = 5
iter = 875, queue = 1612, heur = -5.0, depth = 5
iter = 876, queue = 1615, heur = -5.0, depth = 5
iter = 877, queue = 1618, heur = -5.0, depth = 5
iter = 878, queue = 1619, heur = -5.0, depth = 5
iter = 879, queue = 1622, heur = -5.0, depth = 5
iter = 880, queue = 1625, heur = -5.0, depth = 5
iter = 881, queue = 1626, heur = -5.0, depth = 5
iter = 882, queue = 1627, heur = -5.0, depth = 5
iter = 883, queue = 1628, heur = -5.0, depth = 5
iter = 884, queue = 1630, heur = -5.0, depth = 5
iter = 885, queue = 1631, heur = -5.0, depth = 5
iter = 886, queue = 1631, heur = -5.0, depth = 5
iter = 887, queue = 1632, heur = -5.0, depth = 5
```

```
iter = 888, queue = 1634, heur = -5.0, depth = 5
iter = 889, queue = 1635, heur = -5.0, depth = 5
iter = 890, queue = 1636, heur = -5.0, depth = 5
iter = 891, queue = 1636, heur = -5.0, depth = 5
iter = 892, queue = 1637, heur = -5.0, depth = 5
iter = 893, queue = 1638, heur = -5.0, depth = 5
iter = 894, queue = 1639, heur = -5.0, depth = 5
iter = 895, queue = 1640, heur = -5.0, depth = 6
iter = 896, queue = 1641, heur = -5.0, depth = 5
iter = 897, queue = 1643, heur = -5.0, depth = 5
iter = 898, queue = 1646, heur = -5.0, depth = 5
iter = 899, queue = 1649, heur = -5.0, depth = 5
iter = 900, queue = 1650, heur = -5.0, depth = 5
iter = 901, queue = 1653, heur = -5.0, depth = 5
iter = 902, queue = 1654, heur = -5.0, depth = 5
iter = 903, queue = 1655, heur = -5.0, depth = 5
iter = 904, queue = 1656, heur = -5.0, depth = 5
iter = 905, queue = 1659, heur = -5.0, depth = 5
iter = 906, queue = 1660, heur = -5.0, depth = 5
iter = 907, queue = 1661, heur = -5.0, depth = 5
iter = 908, queue = 1661, heur = -5.0, depth = 5
iter = 909, queue = 1662, heur = -5.0, depth = 5
iter = 910, queue = 1663, heur = -5.0, depth = 5
iter = 911, queue = 1664, heur = -5.0, depth = 5
iter = 912, queue = 1667, heur = -5.0, depth = 5
iter = 913, queue = 1667, heur = -5.0, depth = 5
iter = 914, queue = 1668, heur = -5.0, depth = 5
iter = 915, queue = 1671, heur = -5.0, depth = 5
iter = 916, queue = 1671, heur = -5.0, depth = 5
iter = 917, queue = 1674, heur = -5.0, depth = 5
iter = 918, queue = 1675, heur = -5.0, depth = 5
iter = 919, queue = 1676, heur = -5.0, depth = 5
iter = 920, queue = 1679, heur = -5.0, depth = 5
iter = 921, queue = 1682, heur = -5.0, depth = 5
iter = 922, queue = 1684, heur = -5.0, depth = 5
iter = 923, queue = 1687, heur = -5.0, depth = 5
iter = 924, queue = 1690, heur = -5.0, depth = 5
iter = 925, queue = 1691, heur = -5.0, depth = 5
iter = 926, queue = 1692, heur = -5.0, depth = 5
iter = 927, queue = 1695, heur = -5.0, depth = 5
iter = 928, queue = 1696, heur = -5.0, depth = 5
iter = 929, queue = 1697, heur = -5.0, depth = 5
iter = 930, queue = 1698, heur = -5.0, depth = 5
iter = 931, queue = 1701, heur = -5.0, depth = 6
iter = 932, queue = 1702, heur = -5.0, depth = 5
iter = 933, queue = 1702, heur = -5.0, depth = 7
iter = 934, queue = 1703, heur = -5.0, depth = 5
iter = 935, queue = 1705, heur = -5.0, depth = 5
iter = 936, queue = 1705, heur = -5.0, depth = 5
iter = 937, queue = 1706, heur = -5.0, depth = 5
iter = 938, queue = 1709, heur = -5.0, depth = 5
iter = 939, queue = 1709, heur = -5.0, depth = 5
iter = 940, queue = 1712, heur = -5.0, depth = 5
iter = 941, queue = 1713, heur = -5.0, depth = 5
iter = 942, queue = 1716, heur = -5.0, depth = 5
iter = 943, queue = 1718, heur = -5.0, depth = 5
iter = 944, queue = 1720, heur = -5.0, depth = 5
iter = 945, queue = 1723, heur = -5.0, depth = 5
iter = 946, queue = 1726, heur = -5.0, depth = 5
```

```
iter = 947, queue = 1727, heur = -5.0, depth = 5
iter = 948, queue = 1730, heur = -5.0, depth = 5
iter = 949, queue = 1733, heur = -5.0, depth = 5
iter = 950, queue = 1736, heur = -5.0, depth = 5
iter = 951, queue = 1739, heur = -5.0, depth = 5
iter = 952, queue = 1740, heur = -5.0, depth = 5
iter = 953, queue = 1739, heur = -5.0, depth = 5
iter = 954, queue = 1740, heur = -5.0, depth = 5
iter = 955, queue = 1743, heur = -5.0, depth = 5
iter = 956, queue = 1744, heur = -5.0, depth = 5
iter = 957, queue = 1746, heur = -5.0, depth = 5
iter = 958, queue = 1746, heur = -5.0, depth = 5
iter = 959, queue = 1747, heur = -5.0, depth = 5
iter = 960, queue = 1748, heur = -5.0, depth = 5
iter = 961, queue = 1749, heur = -5.0, depth = 6
iter = 962, queue = 1750, heur = -5.0, depth = 5
iter = 963, queue = 1752, heur = -5.0, depth = 5
iter = 964, queue = 1753, heur = -5.0, depth = 5
iter = 965, queue = 1754, heur = -5.0, depth = 5
iter = 966, queue = 1755, heur = -5.0, depth = 5
iter = 967, queue = 1755, heur = -5.0, depth = 5
iter = 968, queue = 1756, heur = -5.0, depth = 5
iter = 969, queue = 1759, heur = -5.0, depth = 6
iter = 970, queue = 1760, heur = -5.0, depth = 5
iter = 971, queue = 1762, heur = -5.0, depth = 7
iter = 972, queue = 1763, heur = -5.0, depth = 5
iter = 973, queue = 1764, heur = -5.0, depth = 8
iter = 974, queue = 1765, heur = -5.0, depth = 5
iter = 975, queue = 1767, heur = -5.0, depth = 5
iter = 976, queue = 1768, heur = -5.0, depth = 5
iter = 977, queue = 1769, heur = -5.0, depth = 5
iter = 978, queue = 1771, heur = -5.0, depth = 5
iter = 979, queue = 1774, heur = -5.0, depth = 5
iter = 980, queue = 1777, heur = -5.0, depth = 5
iter = 981, queue = 1780, heur = -5.0, depth = 5
iter = 982, queue = 1782, heur = -5.0, depth = 5
iter = 983, queue = 1782, heur = -5.0, depth = 5
iter = 984, queue = 1782, heur = -5.0, depth = 5
iter = 985, queue = 1783, heur = -5.0, depth = 5
iter = 986, queue = 1784, heur = -5.0, depth = 5
iter = 987, queue = 1786, heur = -5.0, depth = 5
iter = 988, queue = 1787, heur = -5.0, depth = 5
iter = 989, queue = 1788, heur = -5.0, depth = 5
iter = 990, queue = 1790, heur = -5.0, depth = 5
iter = 991, queue = 1791, heur = -5.0, depth = 5
iter = 992, queue = 1791, heur = -5.0, depth = 5
iter = 993, queue = 1792, heur = -5.0, depth = 5
iter = 994, queue = 1793, heur = -5.0, depth = 5
iter = 995, queue = 1796, heur = -5.0, depth = 5
iter = 996, queue = 1797, heur = -5.0, depth = 5
iter = 997, queue = 1797, heur = -5.0, depth = 5
iter = 998, queue = 1799, heur = -5.0, depth = 5
iter = 999, queue = 1800, heur = -5.0, depth = 5
iter = 1000, queue = 1800, heur = -5.0, depth = 5
iter = 1001, queue = 1803, heur = -5.0, depth = 5
iter = 1002, queue = 1806, heur = -5.0, depth = 5
iter = 1003, queue = 1805, heur = -5.0, depth = 5
iter = 1004, queue = 1806, heur = -5.0, depth = 5
iter = 1005, queue = 1809, heur = -5.0, depth = 5
```

```
iter = 1006, queue = 1812, heur = -5.0, depth = 5
iter = 1007, queue = 1815, heur = -5.0, depth = 5
iter = 1008, queue = 1818, heur = -5.0, depth = 5
iter = 1009, queue = 1821, heur = -5.0, depth = 5
iter = 1010, queue = 1822, heur = -5.0, depth = 5
iter = 1011, queue = 1823, heur = -5.0, depth = 5
iter = 1012, queue = 1825, heur = -5.0, depth = 5
iter = 1013, queue = 1826, heur = -5.0, depth = 5
iter = 1014, queue = 1827, heur = -5.0, depth = 5
iter = 1015, queue = 1828, heur = -5.0, depth = 5
iter = 1016, queue = 1829, heur = -5.0, depth = 5
iter = 1017, queue = 1832, heur = -5.0, depth = 5
iter = 1018, queue = 1833, heur = -5.0, depth = 5
iter = 1019, queue = 1832, heur = -5.0, depth = 5
iter = 1020, queue = 1833, heur = -5.0, depth = 5
iter = 1021, queue = 1834, heur = -5.0, depth = 5
iter = 1022, queue = 1835, heur = -5.0, depth = 5
iter = 1023, queue = 1835, heur = -5.0, depth = 5
iter = 1024, queue = 1835, heur = -5.0, depth = 5
iter = 1025, queue = 1837, heur = -5.0, depth = 5
iter = 1026, queue = 1839, heur = -5.0, depth = 5
iter = 1027, queue = 1842, heur = -5.0, depth = 5
iter = 1028, queue = 1845, heur = -5.0, depth = 5
iter = 1029, queue = 1848, heur = -5.0, depth = 5
iter = 1030, queue = 1847, heur = -5.0, depth = 5
iter = 1031, queue = 1850, heur = -5.0, depth = 5
iter = 1032, queue = 1852, heur = -5.0, depth = 5
iter = 1033, queue = 1854, heur = -5.0, depth = 5
iter = 1034, queue = 1856, heur = -5.0, depth = 5
iter = 1035, queue = 1856, heur = -5.0, depth = 5
iter = 1036, queue = 1857, heur = -5.0, depth = 5
iter = 1037, queue = 1859, heur = -5.0, depth = 5
iter = 1038, queue = 1859, heur = -5.0, depth = 5
iter = 1039, queue = 1860, heur = -5.0, depth = 5
iter = 1040, queue = 1861, heur = -5.0, depth = 5
iter = 1041, queue = 1863, heur = -5.0, depth = 5
iter = 1042, queue = 1864, heur = -5.0, depth = 5
iter = 1043, queue = 1864, heur = -5.0, depth = 5
iter = 1044, queue = 1867, heur = -5.0, depth = 5
iter = 1045, queue = 1869, heur = -5.0, depth = 5
iter = 1046, queue = 1870, heur = -5.0, depth = 5
iter = 1047, queue = 1873, heur = -5.0, depth = 5
iter = 1048, queue = 1873, heur = -5.0, depth = 5
iter = 1049, queue = 1874, heur = -5.0, depth = 5
iter = 1050, queue = 1875, heur = -5.0, depth = 6
iter = 1051, queue = 1876, heur = -5.0, depth = 5
iter = 1052, queue = 1877, heur = -5.0, depth = 5
iter = 1053, queue = 1878, heur = -5.0, depth = 5
iter = 1054, queue = 1881, heur = -5.0, depth = 5
iter = 1055, queue = 1882, heur = -5.0, depth = 5
iter = 1056, queue = 1883, heur = -5.0, depth = 5
iter = 1057, queue = 1884, heur = -5.0, depth = 5
iter = 1058, queue = 1884, heur = -5.0, depth = 5
iter = 1059, queue = 1885, heur = -5.0, depth = 5
iter = 1060, queue = 1886, heur = -5.0, depth = 5
iter = 1061, queue = 1887, heur = -5.0, depth = 5
iter = 1062, queue = 1888, heur = -5.0, depth = 5
iter = 1063, queue = 1889, heur = -5.0, depth = 5
iter = 1064, queue = 1892, heur = -5.0, depth = 5
```

```
iter = 1065, queue = 1895, heur = -5.0, depth = 5
iter = 1066, queue = 1895, heur = -5.0, depth = 5
iter = 1067, queue = 1896, heur = -5.0, depth = 5
iter = 1068, queue = 1899, heur = -5.0, depth = 5
iter = 1069, queue = 1899, heur = -5.0, depth = 5
iter = 1070, queue = 1899, heur = -5.0, depth = 5
iter = 1071, queue = 1902, heur = -5.0, depth = 5
iter = 1072, queue = 1903, heur = -5.0, depth = 5
iter = 1073, queue = 1904, heur = -5.0, depth = 5
iter = 1074, queue = 1905, heur = -5.0, depth = 5
iter = 1075, queue = 1907, heur = -5.0, depth = 5
iter = 1076, queue = 1910, heur = -5.0, depth = 5
iter = 1077, queue = 1911, heur = -5.0, depth = 5
iter = 1078, queue = 1912, heur = -5.0, depth = 5
iter = 1079, queue = 1913, heur = -5.0, depth = 5
iter = 1080, queue = 1914, heur = -5.0, depth = 5
iter = 1081, queue = 1915, heur = -5.0, depth = 5
iter = 1082, queue = 1917, heur = -5.0, depth = 5
iter = 1083, queue = 1918, heur = -5.0, depth = 5
iter = 1084, queue = 1921, heur = -5.0, depth = 5
iter = 1085, queue = 1922, heur = -5.0, depth = 5
iter = 1086, queue = 1923, heur = -5.0, depth = 5
iter = 1087, queue = 1924, heur = -5.0, depth = 5
iter = 1088, queue = 1925, heur = -5.0, depth = 5
iter = 1089, queue = 1925, heur = -5.0, depth = 5
iter = 1090, queue = 1926, heur = -5.0, depth = 5
iter = 1091, queue = 1929, heur = -5.0, depth = 5
iter = 1092, queue = 1932, heur = -5.0, depth = 5
iter = 1093, queue = 1935, heur = -5.0, depth = 5
iter = 1094, queue = 1936, heur = -5.0, depth = 5
iter = 1095, queue = 1939, heur = -5.0, depth = 5
iter = 1096, queue = 1938, heur = -5.0, depth = 5
iter = 1097, queue = 1940, heur = -5.0, depth = 5
iter = 1098, queue = 1943, heur = -5.0, depth = 5
iter = 1099, queue = 1945, heur = -5.0, depth = 5
iter = 1100, queue = 1946, heur = -5.0, depth = 5
iter = 1101, queue = 1947, heur = -5.0, depth = 5
iter = 1102, queue = 1948, heur = -5.0, depth = 5
iter = 1103, queue = 1949, heur = -5.0, depth = 5
iter = 1104, queue = 1950, heur = -5.0, depth = 5
iter = 1105, queue = 1953, heur = -5.0, depth = 5
iter = 1106, queue = 1953, heur = -5.0, depth = 5
iter = 1107, queue = 1954, heur = -5.0, depth = 5
iter = 1108, queue = 1955, heur = -5.0, depth = 5
iter = 1109, queue = 1956, heur = -5.0, depth = 5
iter = 1110, queue = 1957, heur = -5.0, depth = 5
iter = 1111, queue = 1960, heur = -5.0, depth = 5
iter = 1112, queue = 1963, heur = -5.0, depth = 5
iter = 1113, queue = 1965, heur = -5.0, depth = 5
iter = 1114, queue = 1968, heur = -5.0, depth = 5
iter = 1115, queue = 1968, heur = -5.0, depth = 5
iter = 1116, queue = 1969, heur = -5.0, depth = 5
iter = 1117, queue = 1970, heur = -5.0, depth = 5
iter = 1118, queue = 1973, heur = -5.0, depth = 5
iter = 1119, queue = 1976, heur = -5.0, depth = 5
iter = 1120, queue = 1979, heur = -5.0, depth = 5
iter = 1121, queue = 1982, heur = -5.0, depth = 5
iter = 1122, queue = 1984, heur = -5.0, depth = 5
iter = 1123, queue = 1983, heur = -5.0, depth = 5
```

```
iter = 1124, queue = 1984, heur = -5.0, depth = 5
iter = 1125, queue = 1986, heur = -5.0, depth = 5
iter = 1126, queue = 1989, heur = -5.0, depth = 5
iter = 1127, queue = 1990, heur = -5.0, depth = 5
iter = 1128, queue = 1991, heur = -5.0, depth = 5
iter = 1129, queue = 1992, heur = -5.0, depth = 5
iter = 1130, queue = 1994, heur = -5.0, depth = 5
iter = 1131, queue = 1997, heur = -5.0, depth = 5
iter = 1132, queue = 2000, heur = -5.0, depth = 5
iter = 1133, queue = 2000, heur = -5.0, depth = 5
iter = 1134, queue = 2001, heur = -5.0, depth = 5
iter = 1135, queue = 2003, heur = -5.0, depth = 5
iter = 1136, queue = 2003, heur = -5.0, depth = 5
iter = 1137, queue = 2004, heur = -5.0, depth = 5
iter = 1138, queue = 2007, heur = -5.0, depth = 5
iter = 1139, queue = 2008, heur = -5.0, depth = 5
iter = 1140, queue = 2008, heur = -5.0, depth = 5
iter = 1141, queue = 2009, heur = -5.0, depth = 5
iter = 1142, queue = 2012, heur = -5.0, depth = 5
iter = 1143, queue = 2013, heur = -5.0, depth = 5
iter = 1144, queue = 2015, heur = -5.0, depth = 5
iter = 1145, queue = 2016, heur = -5.0, depth = 5
iter = 1146, queue = 2017, heur = -5.0, depth = 5
iter = 1147, queue = 2018, heur = -5.0, depth = 5
iter = 1148, queue = 2018, heur = -5.0, depth = 5
iter = 1149, queue = 2020, heur = -5.0, depth = 5
iter = 1150, queue = 2023, heur = -5.0, depth = 5
iter = 1151, queue = 2026, heur = -5.0, depth = 5
iter = 1152, queue = 2028, heur = -5.0, depth = 5
iter = 1153, queue = 2028, heur = -5.0, depth = 5
iter = 1154, queue = 2030, heur = -5.0, depth = 5
iter = 1155, queue = 2031, heur = -5.0, depth = 5
iter = 1156, queue = 2033, heur = -5.0, depth = 5
iter = 1157, queue = 2034, heur = -5.0, depth = 5
iter = 1158, queue = 2035, heur = -5.0, depth = 5
iter = 1159, queue = 2036, heur = -5.0, depth = 5
iter = 1160, queue = 2039, heur = -5.0, depth = 5
iter = 1161, queue = 2042, heur = -5.0, depth = 5
iter = 1162, queue = 2045, heur = -5.0, depth = 5
iter = 1163, queue = 2046, heur = -5.0, depth = 5
iter = 1164, queue = 2047, heur = -5.0, depth = 5
iter = 1165, queue = 2048, heur = -5.0, depth = 5
iter = 1166, queue = 2049, heur = -5.0, depth = 5
iter = 1167, queue = 2050, heur = -5.0, depth = 5
iter = 1168, queue = 2051, heur = -5.0, depth = 5
iter = 1169, queue = 2052, heur = -5.0, depth = 5
iter = 1170, queue = 2053, heur = -5.0, depth = 5
iter = 1171, queue = 2054, heur = -5.0, depth = 5
iter = 1172, queue = 2057, heur = -5.0, depth = 5
iter = 1173, queue = 2060, heur = -5.0, depth = 5
iter = 1174, queue = 2062, heur = -5.0, depth = 5
iter = 1175, queue = 2065, heur = -5.0, depth = 5
iter = 1176, queue = 2068, heur = -5.0, depth = 5
iter = 1177, queue = 2071, heur = -5.0, depth = 5
iter = 1178, queue = 2074, heur = -5.0, depth = 5
iter = 1179, queue = 2075, heur = -5.0, depth = 5
iter = 1180, queue = 2076, heur = -5.0, depth = 5
iter = 1181, queue = 2075, heur = -5.0, depth = 5
iter = 1182, queue = 2078, heur = -5.0, depth = 5
```

```
iter = 1183, queue = 2079, heur = -5.0, depth = 5
iter = 1184, queue = 2078, heur = -5.0, depth = 5
iter = 1185, queue = 2079, heur = -5.0, depth = 5
iter = 1186, queue = 2082, heur = -5.0, depth = 5
iter = 1187, queue = 2085, heur = -5.0, depth = 5
iter = 1188, queue = 2086, heur = -5.0, depth = 5
iter = 1189, queue = 2088, heur = -5.0, depth = 5
iter = 1190, queue = 2090, heur = -5.0, depth = 5
iter = 1191, queue = 2090, heur = -5.0, depth = 5
iter = 1192, queue = 2093, heur = -5.0, depth = 5
iter = 1193, queue = 2096, heur = -5.0, depth = 5
iter = 1194, queue = 2098, heur = -5.0, depth = 5
iter = 1195, queue = 2099, heur = -5.0, depth = 5
iter = 1196, queue = 2101, heur = -5.0, depth = 5
iter = 1197, queue = 2102, heur = -5.0, depth = 5
iter = 1198, queue = 2105, heur = -5.0, depth = 5
iter = 1199, queue = 2108, heur = -5.0, depth = 5
iter = 1200, queue = 2109, heur = -5.0, depth = 5
iter = 1201, queue = 2111, heur = -5.0, depth = 5
iter = 1202, queue = 2113, heur = -5.0, depth = 5
iter = 1203, queue = 2116, heur = -5.0, depth = 5
iter = 1204, queue = 2115, heur = -5.0, depth = 5
iter = 1205, queue = 2116, heur = -5.0, depth = 5
iter = 1206, queue = 2118, heur = -5.0, depth = 5
iter = 1207, queue = 2119, heur = -5.0, depth = 5
iter = 1208, queue = 2120, heur = -5.0, depth = 5
iter = 1209, queue = 2123, heur = -5.0, depth = 5
iter = 1210, queue = 2124, heur = -5.0, depth = 5
iter = 1211, queue = 2127, heur = -5.0, depth = 5
iter = 1212, queue = 2129, heur = -5.0, depth = 5
iter = 1213, queue = 2129, heur = -5.0, depth = 5
iter = 1214, queue = 2132, heur = -5.0, depth = 5
iter = 1215, queue = 2133, heur = -5.0, depth = 5
iter = 1216, queue = 2136, heur = -5.0, depth = 5
iter = 1217, queue = 2137, heur = -5.0, depth = 5
iter = 1218, queue = 2140, heur = -5.0, depth = 5
iter = 1219, queue = 2141, heur = -5.0, depth = 5
iter = 1220, queue = 2142, heur = -5.0, depth = 5
iter = 1221, queue = 2142, heur = -5.0, depth = 5
iter = 1222, queue = 2144, heur = -5.0, depth = 5
iter = 1223, queue = 2147, heur = -5.0, depth = 5
iter = 1224, queue = 2147, heur = -5.0, depth = 5
iter = 1225, queue = 2150, heur = -5.0, depth = 5
iter = 1226, queue = 2153, heur = -5.0, depth = 5
iter = 1227, queue = 2156, heur = -5.0, depth = 5
iter = 1228, queue = 2157, heur = -5.0, depth = 5
iter = 1229, queue = 2158, heur = -5.0, depth = 5
iter = 1230, queue = 2161, heur = -5.0, depth = 5
iter = 1231, queue = 2163, heur = -5.0, depth = 5
iter = 1232, queue = 2165, heur = -5.0, depth = 5
iter = 1233, queue = 2166, heur = -5.0, depth = 5
iter = 1234, queue = 2169, heur = -5.0, depth = 5
iter = 1235, queue = 2169, heur = -5.0, depth = 5
iter = 1236, queue = 2170, heur = -5.0, depth = 5
iter = 1237, queue = 2171, heur = -5.0, depth = 5
iter = 1238, queue = 2172, heur = -5.0, depth = 5
iter = 1239, queue = 2173, heur = -5.0, depth = 5
iter = 1240, queue = 2174, heur = -5.0, depth = 5
iter = 1241, queue = 2175, heur = -5.0, depth = 5
```

```
iter = 1242, queue = 2177, heur = -5.0, depth = 5
iter = 1243, queue = 2180, heur = -5.0, depth = 5
iter = 1244, queue = 2181, heur = -5.0, depth = 5
iter = 1245, queue = 2184, heur = -5.0, depth = 5
iter = 1246, queue = 2185, heur = -5.0, depth = 5
iter = 1247, queue = 2186, heur = -5.0, depth = 5
iter = 1248, queue = 2185, heur = -5.0, depth = 5
iter = 1249, queue = 2186, heur = -5.0, depth = 5
iter = 1250, queue = 2189, heur = -5.0, depth = 5
iter = 1251, queue = 2191, heur = -5.0, depth = 5
iter = 1252, queue = 2192, heur = -5.0, depth = 5
iter = 1253, queue = 2192, heur = -5.0, depth = 5
iter = 1254, queue = 2193, heur = -5.0, depth = 5
iter = 1255, queue = 2194, heur = -5.0, depth = 5
iter = 1256, queue = 2196, heur = -5.0, depth = 5
iter = 1257, queue = 2197, heur = -5.0, depth = 5
iter = 1258, queue = 2200, heur = -5.0, depth = 5
iter = 1259, queue = 2202, heur = -5.0, depth = 5
iter = 1260, queue = 2202, heur = -5.0, depth = 5
iter = 1261, queue = 2204, heur = -5.0, depth = 5
iter = 1262, queue = 2205, heur = -5.0, depth = 5
iter = 1263, queue = 2205, heur = -5.0, depth = 5
iter = 1264, queue = 2206, heur = -5.0, depth = 5
iter = 1265, queue = 2207, heur = -5.0, depth = 5
iter = 1266, queue = 2210, heur = -5.0, depth = 6
iter = 1267, queue = 2211, heur = -5.0, depth = 5
iter = 1268, queue = 2214, heur = -5.0, depth = 5
iter = 1269, queue = 2215, heur = -5.0, depth = 5
iter = 1270, queue = 2218, heur = -5.0, depth = 5
iter = 1271, queue = 2221, heur = -5.0, depth = 7
iter = 1272, queue = 2222, heur = -5.0, depth = 5
iter = 1273, queue = 2223, heur = -5.0, depth = 5
iter = 1274, queue = 2226, heur = -5.0, depth = 5
iter = 1275, queue = 2227, heur = -5.0, depth = 5
iter = 1276, queue = 2228, heur = -5.0, depth = 5
iter = 1277, queue = 2230, heur = -5.0, depth = 5
iter = 1278, queue = 2233, heur = -5.0, depth = 5
iter = 1279, queue = 2234, heur = -5.0, depth = 5
iter = 1280, queue = 2235, heur = -5.0, depth = 5
iter = 1281, queue = 2236, heur = -5.0, depth = 5
iter = 1282, queue = 2237, heur = -5.0, depth = 5
iter = 1283, queue = 2239, heur = -5.0, depth = 5
iter = 1284, queue = 2240, heur = -5.0, depth = 5
iter = 1285, queue = 2243, heur = -5.0, depth = 5
iter = 1286, queue = 2246, heur = -5.0, depth = 5
iter = 1287, queue = 2247, heur = -5.0, depth = 5
iter = 1288, queue = 2249, heur = -5.0, depth = 5
iter = 1289, queue = 2248, heur = -5.0, depth = 5
iter = 1290, queue = 2250, heur = -6.0, depth = 6
iter = 1291, queue = 2253, heur = -6.0, depth = 6
iter = 1292, queue = 2254, heur = -6.0, depth = 6
iter = 1293, queue = 2253, heur = -6.0, depth = 8
iter = 1294, queue = 2256, heur = -6.0, depth = 7
iter = 1295, queue = 2259, heur = -6.0, depth = 6
iter = 1296, queue = 2260, heur = -6.0, depth = 6
iter = 1297, queue = 2260, heur = -6.0, depth = 6
iter = 1298, queue = 2261, heur = -6.0, depth = 6
iter = 1299, queue = 2262, heur = -6.0, depth = 6
iter = 1300, queue = 2263, heur = -6.0, depth = 6
```

```
iter = 1301, queue = 2266, heur = -6.0, depth = 6
iter = 1302, queue = 2269, heur = -6.0, depth = 6
iter = 1303, queue = 2272, heur = -6.0, depth = 6
iter = 1304, queue = 2273, heur = -6.0, depth = 6
iter = 1305, queue = 2276, heur = -6.0, depth = 6
iter = 1306, queue = 2277, heur = -6.0, depth = 6
iter = 1307, queue = 2276, heur = -6.0, depth = 6
iter = 1308, queue = 2277, heur = -6.0, depth = 6
iter = 1309, queue = 2280, heur = -6.0, depth = 6
iter = 1310, queue = 2283, heur = -6.0, depth = 6
iter = 1311, queue = 2282, heur = -6.0, depth = 6
iter = 1312, queue = 2285, heur = -6.0, depth = 6
iter = 1313, queue = 2286, heur = -6.0, depth = 6
iter = 1314, queue = 2289, heur = -6.0, depth = 6
iter = 1315, queue = 2290, heur = -6.0, depth = 6
iter = 1316, queue = 2291, heur = -6.0, depth = 6
iter = 1317, queue = 2292, heur = -6.0, depth = 6
iter = 1318, queue = 2293, heur = -6.0, depth = 6
iter = 1319, queue = 2294, heur = -6.0, depth = 6
iter = 1320, queue = 2295, heur = -6.0, depth = 6
iter = 1321, queue = 2296, heur = -6.0, depth = 6
iter = 1322, queue = 2297, heur = -6.0, depth = 6
iter = 1323, queue = 2298, heur = -6.0, depth = 6
iter = 1324, queue = 2299, heur = -6.0, depth = 6
iter = 1325, queue = 2300, heur = -6.0, depth = 6
iter = 1326, queue = 2303, heur = -6.0, depth = 6
iter = 1327, queue = 2304, heur = -6.0, depth = 6
iter = 1328, queue = 2305, heur = -6.0, depth = 6
iter = 1329, queue = 2308, heur = -6.0, depth = 6
iter = 1330, queue = 2307, heur = -6.0, depth = 6
iter = 1331, queue = 2310, heur = -6.0, depth = 6
iter = 1332, queue = 2311, heur = -6.0, depth = 6
iter = 1333, queue = 2314, heur = -6.0, depth = 6
iter = 1334, queue = 2317, heur = -6.0, depth = 6
iter = 1335, queue = 2318, heur = -6.0, depth = 6
iter = 1336, queue = 2319, heur = -6.0, depth = 6
iter = 1337, queue = 2322, heur = -6.0, depth = 6
iter = 1338, queue = 2325, heur = -6.0, depth = 6
iter = 1339, queue = 2328, heur = -6.0, depth = 6
iter = 1340, queue = 2331, heur = -6.0, depth = 6
iter = 1341, queue = 2333, heur = -6.0, depth = 6
iter = 1342, queue = 2336, heur = -6.0, depth = 6
iter = 1343, queue = 2337, heur = -6.0, depth = 6
iter = 1344, queue = 2337, heur = -6.0, depth = 6
iter = 1345, queue = 2338, heur = -6.0, depth = 6
iter = 1346, queue = 2341, heur = -6.0, depth = 6
iter = 1347, queue = 2344, heur = -6.0, depth = 6
iter = 1348, queue = 2345, heur = -6.0, depth = 6
iter = 1349, queue = 2348, heur = -6.0, depth = 6
iter = 1350, queue = 2351, heur = -6.0, depth = 6
iter = 1351, queue = 2354, heur = -6.0, depth = 6
iter = 1352, queue = 2357, heur = -6.0, depth = 6
iter = 1353, queue = 2356, heur = -6.0, depth = 6
iter = 1354, queue = 2357, heur = -6.0, depth = 6
iter = 1355, queue = 2360, heur = -6.0, depth = 6
iter = 1356, queue = 2363, heur = -6.0, depth = 6
iter = 1357, queue = 2365, heur = -6.0, depth = 6
iter = 1358, queue = 2368, heur = -6.0, depth = 6
iter = 1359, queue = 2371, heur = -6.0, depth = 6
```

```
iter = 1360, queue = 2370, heur = -6.0, depth = 6
iter = 1361, queue = 2369, heur = -6.0, depth = 6
iter = 1362, queue = 2370, heur = -6.0, depth = 6
iter = 1363, queue = 2371, heur = -6.0, depth = 6
iter = 1364, queue = 2374, heur = -6.0, depth = 6
iter = 1365, queue = 2375, heur = -6.0, depth = 6
iter = 1366, queue = 2377, heur = -6.0, depth = 6
iter = 1367, queue = 2378, heur = -6.0, depth = 6
iter = 1368, queue = 2378, heur = -6.0, depth = 6
iter = 1369, queue = 2379, heur = -6.0, depth = 6
iter = 1370, queue = 2382, heur = -6.0, depth = 6
iter = 1371, queue = 2385, heur = -6.0, depth = 6
iter = 1372, queue = 2386, heur = -6.0, depth = 6
iter = 1373, queue = 2387, heur = -6.0, depth = 6
iter = 1374, queue = 2390, heur = -6.0, depth = 6
iter = 1375, queue = 2391, heur = -6.0, depth = 6
iter = 1376, queue = 2393, heur = -6.0, depth = 6
iter = 1377, queue = 2392, heur = -6.0, depth = 6
iter = 1378, queue = 2395, heur = -6.0, depth = 8
iter = 1379, queue = 2396, heur = -6.0, depth = 6
iter = 1380, queue = 2397, heur = -6.0, depth = 6
iter = 1381, queue = 2400, heur = -6.0, depth = 6
iter = 1382, queue = 2403, heur = -6.0, depth = 6
iter = 1383, queue = 2406, heur = -6.0, depth = 6
iter = 1384, queue = 2409, heur = -6.0, depth = 6
iter = 1385, queue = 2410, heur = -6.0, depth = 6
iter = 1386, queue = 2411, heur = -6.0, depth = 6
iter = 1387, queue = 2414, heur = -6.0, depth = 6
iter = 1388, queue = 2417, heur = -6.0, depth = 6
iter = 1389, queue = 2420, heur = -6.0, depth = 6
iter = 1390, queue = 2421, heur = -6.0, depth = 6
iter = 1391, queue = 2424, heur = -6.0, depth = 6
iter = 1392, queue = 2425, heur = -6.0, depth = 6
iter = 1393, queue = 2426, heur = -6.0, depth = 6
iter = 1394, queue = 2429, heur = -6.0, depth = 6
iter = 1395, queue = 2432, heur = -6.0, depth = 6
iter = 1396, queue = 2433, heur = -6.0, depth = 6
iter = 1397, queue = 2436, heur = -6.0, depth = 6
iter = 1398, queue = 2437, heur = -6.0, depth = 6
iter = 1399, queue = 2440, heur = -6.0, depth = 6
iter = 1400, queue = 2443, heur = -6.0, depth = 6
iter = 1401, queue = 2445, heur = -6.0, depth = 6
iter = 1402, queue = 2446, heur = -6.0, depth = 6
iter = 1403, queue = 2449, heur = -6.0, depth = 6
iter = 1404, queue = 2452, heur = -6.0, depth = 6
iter = 1405, queue = 2451, heur = -6.0, depth = 6
iter = 1406, queue = 2452, heur = -6.0, depth = 6
iter = 1407, queue = 2453, heur = -6.0, depth = 6
iter = 1408, queue = 2454, heur = -6.0, depth = 6
iter = 1409, queue = 2457, heur = -6.0, depth = 6
iter = 1410, queue = 2458, heur = -6.0, depth = 6
iter = 1411, queue = 2459, heur = -6.0, depth = 6
iter = 1412, queue = 2462, heur = -6.0, depth = 6
iter = 1413, queue = 2462, heur = -6.0, depth = 6
iter = 1414, queue = 2464, heur = -6.0, depth = 6
iter = 1415, queue = 2467, heur = -6.0, depth = 6
iter = 1416, queue = 2470, heur = -6.0, depth = 6
iter = 1417, queue = 2473, heur = -6.0, depth = 6
iter = 1418, queue = 2474, heur = -6.0, depth = 6
```

```
iter = 1419, queue = 2475, heur = -6.0, depth = 6
iter = 1420, queue = 2476, heur = -6.0, depth = 6
iter = 1421, queue = 2476, heur = -6.0, depth = 6
iter = 1422, queue = 2477, heur = -6.0, depth = 6
iter = 1423, queue = 2480, heur = -6.0, depth = 6
iter = 1424, queue = 2483, heur = -6.0, depth = 6
iter = 1425, queue = 2486, heur = -6.0, depth = 6
iter = 1426, queue = 2489, heur = -6.0, depth = 6
iter = 1427, queue = 2492, heur = -6.0, depth = 6
iter = 1428, queue = 2495, heur = -6.0, depth = 6
iter = 1429, queue = 2496, heur = -6.0, depth = 6
iter = 1430, queue = 2499, heur = -6.0, depth = 6
iter = 1431, queue = 2502, heur = -6.0, depth = 6
iter = 1432, queue = 2505, heur = -6.0, depth = 6
iter = 1433, queue = 2506, heur = -6.0, depth = 6
iter = 1434, queue = 2507, heur = -6.0, depth = 6
iter = 1435, queue = 2510, heur = -6.0, depth = 6
iter = 1436, queue = 2511, heur = -6.0, depth = 6
iter = 1437, queue = 2513, heur = -6.0, depth = 6
iter = 1438, queue = 2515, heur = -6.0, depth = 6
iter = 1439, queue = 2516, heur = -6.0, depth = 6
iter = 1440, queue = 2517, heur = -6.0, depth = 6
iter = 1441, queue = 2520, heur = -6.0, depth = 6
iter = 1442, queue = 2521, heur = -6.0, depth = 6
iter = 1443, queue = 2520, heur = -6.0, depth = 6
iter = 1444, queue = 2521, heur = -6.0, depth = 7
iter = 1445, queue = 2522, heur = -6.0, depth = 6
iter = 1446, queue = 2523, heur = -6.0, depth = 6
iter = 1447, queue = 2524, heur = -6.0, depth = 6
iter = 1448, queue = 2525, heur = -6.0, depth = 6
iter = 1449, queue = 2526, heur = -6.0, depth = 6
iter = 1450, queue = 2527, heur = -6.0, depth = 6
iter = 1451, queue = 2528, heur = -6.0, depth = 6
iter = 1452, queue = 2531, heur = -6.0, depth = 6
iter = 1453, queue = 2534, heur = -6.0, depth = 6
iter = 1454, queue = 2537, heur = -6.0, depth = 6
iter = 1455, queue = 2538, heur = -6.0, depth = 6
iter = 1456, queue = 2540, heur = -6.0, depth = 6
iter = 1457, queue = 2543, heur = -6.0, depth = 6
iter = 1458, queue = 2544, heur = -6.0, depth = 6
iter = 1459, queue = 2544, heur = -6.0, depth = 6
iter = 1460, queue = 2547, heur = -6.0, depth = 6
iter = 1461, queue = 2549, heur = -6.0, depth = 6
iter = 1462, queue = 2550, heur = -6.0, depth = 6
iter = 1463, queue = 2551, heur = -6.0, depth = 6
iter = 1464, queue = 2552, heur = -6.0, depth = 6
iter = 1465, queue = 2552, heur = -6.0, depth = 6
iter = 1466, queue = 2552, heur = -6.0, depth = 6
iter = 1467, queue = 2555, heur = -6.0, depth = 6
iter = 1468, queue = 2556, heur = -6.0, depth = 6
iter = 1469, queue = 2557, heur = -6.0, depth = 6
iter = 1470, queue = 2558, heur = -6.0, depth = 6
iter = 1471, queue = 2559, heur = -6.0, depth = 6
iter = 1472, queue = 2560, heur = -6.0, depth = 6
iter = 1473, queue = 2561, heur = -6.0, depth = 6
iter = 1474, queue = 2560, heur = -6.0, depth = 6
iter = 1475, queue = 2563, heur = -6.0, depth = 6
iter = 1476, queue = 2564, heur = -6.0, depth = 6
iter = 1477, queue = 2566, heur = -6.0, depth = 6
```

```
iter = 1478, queue = 2569, heur = -6.0, depth = 6
iter = 1479, queue = 2572, heur = -6.0, depth = 6
iter = 1480, queue = 2575, heur = -6.0, depth = 6
iter = 1481, queue = 2576, heur = -6.0, depth = 6
iter = 1482, queue = 2579, heur = -6.0, depth = 6
iter = 1483, queue = 2580, heur = -6.0, depth = 6
iter = 1484, queue = 2582, heur = -6.0, depth = 6
iter = 1485, queue = 2583, heur = -6.0, depth = 6
iter = 1486, queue = 2584, heur = -6.0, depth = 6
iter = 1487, queue = 2585, heur = -6.0, depth = 6
iter = 1488, queue = 2586, heur = -6.0, depth = 6
iter = 1489, queue = 2588, heur = -6.0, depth = 6
iter = 1490, queue = 2588, heur = -6.0, depth = 6
iter = 1491, queue = 2589, heur = -6.0, depth = 6
iter = 1492, queue = 2590, heur = -6.0, depth = 6
iter = 1493, queue = 2593, heur = -6.0, depth = 6
iter = 1494, queue = 2596, heur = -6.0, depth = 6
iter = 1495, queue = 2597, heur = -6.0, depth = 6
iter = 1496, queue = 2598, heur = -6.0, depth = 6
iter = 1497, queue = 2599, heur = -6.0, depth = 6
iter = 1498, queue = 2602, heur = -6.0, depth = 6
iter = 1499, queue = 2603, heur = -6.0, depth = 6
iter = 1500, queue = 2606, heur = -6.0, depth = 6
iter = 1501, queue = 2609, heur = -6.0, depth = 6
iter = 1502, queue = 2610, heur = -6.0, depth = 6
iter = 1503, queue = 2609, heur = -6.0, depth = 6
iter = 1504, queue = 2610, heur = -6.0, depth = 6
iter = 1505, queue = 2611, heur = -6.0, depth = 6
iter = 1506, queue = 2613, heur = -6.0, depth = 6
iter = 1507, queue = 2614, heur = -6.0, depth = 6
iter = 1508, queue = 2615, heur = -6.0, depth = 6
iter = 1509, queue = 2618, heur = -6.0, depth = 6
iter = 1510, queue = 2619, heur = -6.0, depth = 6
iter = 1511, queue = 2622, heur = -6.0, depth = 6
iter = 1512, queue = 2625, heur = -6.0, depth = 6
iter = 1513, queue = 2626, heur = -6.0, depth = 6
iter = 1514, queue = 2627, heur = -6.0, depth = 6
iter = 1515, queue = 2630, heur = -6.0, depth = 6
iter = 1516, queue = 2633, heur = -6.0, depth = 6
iter = 1517, queue = 2634, heur = -6.0, depth = 6
iter = 1518, queue = 2635, heur = -6.0, depth = 6
iter = 1519, queue = 2636, heur = -6.0, depth = 6
iter = 1520, queue = 2637, heur = -6.0, depth = 6
iter = 1521, queue = 2640, heur = -6.0, depth = 6
iter = 1522, queue = 2639, heur = -6.0, depth = 6
iter = 1523, queue = 2642, heur = -6.0, depth = 6
iter = 1524, queue = 2643, heur = -6.0, depth = 6
iter = 1525, queue = 2646, heur = -6.0, depth = 6
iter = 1526, queue = 2647, heur = -6.0, depth = 6
iter = 1527, queue = 2648, heur = -6.0, depth = 6
iter = 1528, queue = 2649, heur = -6.0, depth = 6
iter = 1529, queue = 2652, heur = -6.0, depth = 6
iter = 1530, queue = 2654, heur = -6.0, depth = 6
iter = 1531, queue = 2655, heur = -6.0, depth = 6
iter = 1532, queue = 2658, heur = -6.0, depth = 6
iter = 1533, queue = 2659, heur = -6.0, depth = 6
iter = 1534, queue = 2662, heur = -6.0, depth = 6
iter = 1535, queue = 2665, heur = -6.0, depth = 6
iter = 1536, queue = 2665, heur = -6.0, depth = 6
```

```
iter = 1537, queue = 2667, heur = -6.0, depth = 6
iter = 1538, queue = 2670, heur = -6.0, depth = 6
iter = 1539, queue = 2672, heur = -6.0, depth = 6
iter = 1540, queue = 2675, heur = -6.0, depth = 6
iter = 1541, queue = 2676, heur = -6.0, depth = 6
iter = 1542, queue = 2677, heur = -6.0, depth = 6
iter = 1543, queue = 2679, heur = -6.0, depth = 6
iter = 1544, queue = 2679, heur = -6.0, depth = 6
iter = 1545, queue = 2680, heur = -6.0, depth = 6
iter = 1546, queue = 2681, heur = -6.0, depth = 6
iter = 1547, queue = 2682, heur = -6.0, depth = 6
iter = 1548, queue = 2683, heur = -6.0, depth = 6
iter = 1549, queue = 2686, heur = -6.0, depth = 6
iter = 1550, queue = 2687, heur = -6.0, depth = 6
iter = 1551, queue = 2688, heur = -6.0, depth = 6
iter = 1552, queue = 2690, heur = -6.0, depth = 6
iter = 1553, queue = 2691, heur = -6.0, depth = 6
iter = 1554, queue = 2692, heur = -6.0, depth = 6
iter = 1555, queue = 2693, heur = -6.0, depth = 6
iter = 1556, queue = 2695, heur = -6.0, depth = 6
iter = 1557, queue = 2694, heur = -6.0, depth = 6
iter = 1558, queue = 2696, heur = -6.0, depth = 6
iter = 1559, queue = 2699, heur = -6.0, depth = 6
iter = 1560, queue = 2702, heur = -6.0, depth = 6
iter = 1561, queue = 2703, heur = -6.0, depth = 6
iter = 1562, queue = 2704, heur = -6.0, depth = 6
iter = 1563, queue = 2707, heur = -6.0, depth = 6
iter = 1564, queue = 2710, heur = -6.0, depth = 6
iter = 1565, queue = 2713, heur = -6.0, depth = 6
iter = 1566, queue = 2714, heur = -6.0, depth = 6
iter = 1567, queue = 2714, heur = -6.0, depth = 6
iter = 1568, queue = 2715, heur = -6.0, depth = 6
iter = 1569, queue = 2718, heur = -6.0, depth = 6
iter = 1570, queue = 2720, heur = -6.0, depth = 6
iter = 1571, queue = 2721, heur = -6.0, depth = 6
iter = 1572, queue = 2722, heur = -6.0, depth = 6
iter = 1573, queue = 2723, heur = -6.0, depth = 6
iter = 1574, queue = 2726, heur = -6.0, depth = 6
iter = 1575, queue = 2727, heur = -6.0, depth = 6
iter = 1576, queue = 2727, heur = -6.0, depth = 6
iter = 1577, queue = 2730, heur = -6.0, depth = 6
iter = 1578, queue = 2733, heur = -6.0, depth = 6
iter = 1579, queue = 2732, heur = -6.0, depth = 6
iter = 1580, queue = 2735, heur = -6.0, depth = 6
iter = 1581, queue = 2738, heur = -6.0, depth = 6
iter = 1582, queue = 2740, heur = -6.0, depth = 6
iter = 1583, queue = 2742, heur = -6.0, depth = 6
iter = 1584, queue = 2745, heur = -6.0, depth = 6
iter = 1585, queue = 2746, heur = -6.0, depth = 6
iter = 1586, queue = 2749, heur = -6.0, depth = 6
iter = 1587, queue = 2750, heur = -6.0, depth = 6
iter = 1588, queue = 2751, heur = -6.0, depth = 6
iter = 1589, queue = 2753, heur = -6.0, depth = 6
iter = 1590, queue = 2754, heur = -6.0, depth = 6
iter = 1591, queue = 2757, heur = -6.0, depth = 6
iter = 1592, queue = 2760, heur = -6.0, depth = 6
iter = 1593, queue = 2763, heur = -6.0, depth = 6
iter = 1594, queue = 2765, heur = -6.0, depth = 6
iter = 1595, queue = 2766, heur = -6.0, depth = 6
```

```
iter = 1596, queue = 2769, heur = -6.0, depth = 6
iter = 1597, queue = 2770, heur = -6.0, depth = 6
iter = 1598, queue = 2773, heur = -6.0, depth = 6
iter = 1599, queue = 2776, heur = -6.0, depth = 6
iter = 1600, queue = 2779, heur = -6.0, depth = 6
iter = 1601, queue = 2780, heur = -6.0, depth = 6
iter = 1602, queue = 2781, heur = -6.0, depth = 6
iter = 1603, queue = 2784, heur = -6.0, depth = 6
iter = 1604, queue = 2785, heur = -6.0, depth = 6
iter = 1605, queue = 2788, heur = -6.0, depth = 6
iter = 1606, queue = 2791, heur = -6.0, depth = 6
iter = 1607, queue = 2792, heur = -6.0, depth = 6
iter = 1608, queue = 2793, heur = -6.0, depth = 6
iter = 1609, queue = 2794, heur = -6.0, depth = 6
iter = 1610, queue = 2797, heur = -6.0, depth = 6
iter = 1611, queue = 2798, heur = -6.0, depth = 6
iter = 1612, queue = 2798, heur = -6.0, depth = 6
iter = 1613, queue = 2801, heur = -6.0, depth = 6
iter = 1614, queue = 2802, heur = -6.0, depth = 6
iter = 1615, queue = 2802, heur = -6.0, depth = 6
iter = 1616, queue = 2805, heur = -6.0, depth = 6
iter = 1617, queue = 2807, heur = -6.0, depth = 6
iter = 1618, queue = 2810, heur = -6.0, depth = 6
iter = 1619, queue = 2811, heur = -6.0, depth = 6
iter = 1620, queue = 2813, heur = -6.0, depth = 6
iter = 1621, queue = 2816, heur = -6.0, depth = 6
iter = 1622, queue = 2817, heur = -6.0, depth = 6
iter = 1623, queue = 2819, heur = -6.0, depth = 6
iter = 1624, queue = 2820, heur = -6.0, depth = 6
iter = 1625, queue = 2821, heur = -6.0, depth = 6
iter = 1626, queue = 2824, heur = -6.0, depth = 6
iter = 1627, queue = 2826, heur = -6.0, depth = 6
iter = 1628, queue = 2827, heur = -6.0, depth = 6
iter = 1629, queue = 2828, heur = -6.0, depth = 6
iter = 1630, queue = 2829, heur = -6.0, depth = 6
iter = 1631, queue = 2832, heur = -6.0, depth = 6
iter = 1632, queue = 2833, heur = -6.0, depth = 6
iter = 1633, queue = 2836, heur = -6.0, depth = 6
iter = 1634, queue = 2839, heur = -6.0, depth = 6
iter = 1635, queue = 2841, heur = -6.0, depth = 6
iter = 1636, queue = 2842, heur = -6.0, depth = 6
iter = 1637, queue = 2843, heur = -6.0, depth = 6
iter = 1638, queue = 2846, heur = -6.0, depth = 6
iter = 1639, queue = 2847, heur = -6.0, depth = 6
iter = 1640, queue = 2850, heur = -6.0, depth = 6
iter = 1641, queue = 2850, heur = -6.0, depth = 6
iter = 1642, queue = 2851, heur = -6.0, depth = 7
iter = 1643, queue = 2852, heur = -6.0, depth = 6
iter = 1644, queue = 2853, heur = -6.0, depth = 6
iter = 1645, queue = 2853, heur = -6.0, depth = 6
iter = 1646, queue = 2854, heur = -6.0, depth = 6
iter = 1647, queue = 2853, heur = -6.0, depth = 6
iter = 1648, queue = 2852, heur = -6.0, depth = 6
iter = 1649, queue = 2853, heur = -6.0, depth = 6
iter = 1650, queue = 2856, heur = -6.0, depth = 6
iter = 1651, queue = 2859, heur = -6.0, depth = 6
iter = 1652, queue = 2860, heur = -6.0, depth = 6
iter = 1653, queue = 2861, heur = -6.0, depth = 6
iter = 1654, queue = 2864, heur = -6.0, depth = 6
```

```
iter = 1655, queue = 2865, heur = -6.0, depth = 6
iter = 1656, queue = 2866, heur = -6.0, depth = 8
iter = 1657, queue = 2868, heur = -6.0, depth = 6
iter = 1658, queue = 2871, heur = -6.0, depth = 6
iter = 1659, queue = 2874, heur = -6.0, depth = 6
iter = 1660, queue = 2877, heur = -6.0, depth = 6
iter = 1661, queue = 2880, heur = -6.0, depth = 6
iter = 1662, queue = 2881, heur = -6.0, depth = 6
iter = 1663, queue = 2882, heur = -6.0, depth = 6
iter = 1664, queue = 2884, heur = -6.0, depth = 6
iter = 1665, queue = 2887, heur = -6.0, depth = 6
iter = 1666, queue = 2888, heur = -6.0, depth = 6
iter = 1667, queue = 2889, heur = -6.0, depth = 6
iter = 1668, queue = 2892, heur = -6.0, depth = 6
iter = 1669, queue = 2895, heur = -6.0, depth = 6
iter = 1670, queue = 2898, heur = -6.0, depth = 6
iter = 1671, queue = 2899, heur = -6.0, depth = 6
iter = 1672, queue = 2902, heur = -6.0, depth = 6
iter = 1673, queue = 2905, heur = -6.0, depth = 6
iter = 1674, queue = 2908, heur = -6.0, depth = 6
iter = 1675, queue = 2911, heur = -6.0, depth = 6
iter = 1676, queue = 2912, heur = -6.0, depth = 6
iter = 1677, queue = 2915, heur = -6.0, depth = 6
iter = 1678, queue = 2918, heur = -6.0, depth = 6
iter = 1679, queue = 2919, heur = -6.0, depth = 6
iter = 1680, queue = 2922, heur = -6.0, depth = 6
iter = 1681, queue = 2925, heur = -6.0, depth = 6
iter = 1682, queue = 2925, heur = -6.0, depth = 6
iter = 1683, queue = 2926, heur = -6.0, depth = 6
iter = 1684, queue = 2927, heur = -6.0, depth = 6
iter = 1685, queue = 2930, heur = -6.0, depth = 6
iter = 1686, queue = 2933, heur = -6.0, depth = 6
iter = 1687, queue = 2934, heur = -6.0, depth = 6
iter = 1688, queue = 2937, heur = -6.0, depth = 6
iter = 1689, queue = 2938, heur = -6.0, depth = 6
iter = 1690, queue = 2941, heur = -6.0, depth = 6
iter = 1691, queue = 2944, heur = -6.0, depth = 6
iter = 1692, queue = 2945, heur = -6.0, depth = 6
iter = 1693, queue = 2946, heur = -6.0, depth = 6
iter = 1694, queue = 2947, heur = -6.0, depth = 6
iter = 1695, queue = 2950, heur = -6.0, depth = 6
iter = 1696, queue = 2952, heur = -6.0, depth = 6
iter = 1697, queue = 2953, heur = -6.0, depth = 6
iter = 1698, queue = 2954, heur = -6.0, depth = 6
iter = 1699, queue = 2956, heur = -6.0, depth = 6
iter = 1700, queue = 2959, heur = -6.0, depth = 6
iter = 1701, queue = 2959, heur = -6.0, depth = 6
iter = 1702, queue = 2962, heur = -6.0, depth = 6
iter = 1703, queue = 2965, heur = -6.0, depth = 6
iter = 1704, queue = 2966, heur = -6.0, depth = 6
iter = 1705, queue = 2969, heur = -6.0, depth = 6
iter = 1706, queue = 2968, heur = -6.0, depth = 6
iter = 1707, queue = 2969, heur = -6.0, depth = 6
iter = 1708, queue = 2970, heur = -6.0, depth = 6
iter = 1709, queue = 2973, heur = -6.0, depth = 6
iter = 1710, queue = 2974, heur = -6.0, depth = 6
iter = 1711, queue = 2976, heur = -6.0, depth = 6
iter = 1712, queue = 2977, heur = -6.0, depth = 6
iter = 1713, queue = 2980, heur = -6.0, depth = 6
```

```
iter = 1714, queue = 2980, heur = -6.0, depth = 6
iter = 1715, queue = 2981, heur = -6.0, depth = 6
iter = 1716, queue = 2984, heur = -6.0, depth = 6
iter = 1717, queue = 2987, heur = -6.0, depth = 6
iter = 1718, queue = 2988, heur = -6.0, depth = 6
iter = 1719, queue = 2991, heur = -6.0, depth = 6
iter = 1720, queue = 2992, heur = -6.0, depth = 6
iter = 1721, queue = 2995, heur = -6.0, depth = 6
iter = 1722, queue = 2996, heur = -6.0, depth = 6
iter = 1723, queue = 2997, heur = -6.0, depth = 6
iter = 1724, queue = 2996, heur = -6.0, depth = 6
iter = 1725, queue = 2999, heur = -6.0, depth = 6
iter = 1726, queue = 3000, heur = -6.0, depth = 6
iter = 1727, queue = 3003, heur = -6.0, depth = 6
iter = 1728, queue = 3003, heur = -6.0, depth = 6
iter = 1729, queue = 3003, heur = -6.0, depth = 6
iter = 1730, queue = 3005, heur = -6.0, depth = 6
iter = 1731, queue = 3006, heur = -6.0, depth = 6
iter = 1732, queue = 3008, heur = -6.0, depth = 6
iter = 1733, queue = 3007, heur = -6.0, depth = 6
iter = 1734, queue = 3009, heur = -6.0, depth = 6
iter = 1735, queue = 3010, heur = -6.0, depth = 6
iter = 1736, queue = 3013, heur = -6.0, depth = 6
iter = 1737, queue = 3014, heur = -6.0, depth = 6
iter = 1738, queue = 3016, heur = -6.0, depth = 6
iter = 1739, queue = 3019, heur = -6.0, depth = 6
iter = 1740, queue = 3021, heur = -6.0, depth = 6
iter = 1741, queue = 3022, heur = -6.0, depth = 6
iter = 1742, queue = 3025, heur = -6.0, depth = 6
iter = 1743, queue = 3028, heur = -6.0, depth = 6
iter = 1744, queue = 3027, heur = -6.0, depth = 6
iter = 1745, queue = 3028, heur = -6.0, depth = 6
iter = 1746, queue = 3031, heur = -6.0, depth = 6
iter = 1747, queue = 3032, heur = -6.0, depth = 6
iter = 1748, queue = 3035, heur = -6.0, depth = 6
iter = 1749, queue = 3038, heur = -6.0, depth = 6
iter = 1750, queue = 3038, heur = -6.0, depth = 6
iter = 1751, queue = 3039, heur = -6.0, depth = 6
iter = 1752, queue = 3041, heur = -6.0, depth = 6
iter = 1753, queue = 3044, heur = -6.0, depth = 6
iter = 1754, queue = 3047, heur = -6.0, depth = 6
iter = 1755, queue = 3048, heur = -6.0, depth = 6
iter = 1756, queue = 3049, heur = -6.0, depth = 6
iter = 1757, queue = 3052, heur = -6.0, depth = 6
iter = 1758, queue = 3055, heur = -6.0, depth = 6
iter = 1759, queue = 3056, heur = -6.0, depth = 6
iter = 1760, queue = 3057, heur = -6.0, depth = 6
iter = 1761, queue = 3060, heur = -6.0, depth = 6
iter = 1762, queue = 3061, heur = -6.0, depth = 6
iter = 1763, queue = 3062, heur = -6.0, depth = 6
iter = 1764, queue = 3063, heur = -6.0, depth = 6
iter = 1765, queue = 3064, heur = -6.0, depth = 6
iter = 1766, queue = 3065, heur = -6.0, depth = 6
iter = 1767, queue = 3066, heur = -6.0, depth = 6
iter = 1768, queue = 3067, heur = -6.0, depth = 6
iter = 1769, queue = 3070, heur = -6.0, depth = 6
iter = 1770, queue = 3071, heur = -6.0, depth = 6
iter = 1771, queue = 3072, heur = -6.0, depth = 6
iter = 1772, queue = 3073, heur = -6.0, depth = 6
```

```
iter = 1773, queue = 3074, heur = -6.0, depth = 6
iter = 1774, queue = 3076, heur = -6.0, depth = 6
iter = 1775, queue = 3076, heur = -6.0, depth = 6
iter = 1776, queue = 3077, heur = -6.0, depth = 6
iter = 1777, queue = 3077, heur = -6.0, depth = 6
iter = 1778, queue = 3080, heur = -6.0, depth = 6
iter = 1779, queue = 3081, heur = -6.0, depth = 6
iter = 1780, queue = 3082, heur = -6.0, depth = 6
iter = 1781, queue = 3083, heur = -6.0, depth = 6
iter = 1782, queue = 3085, heur = -6.0, depth = 6
iter = 1783, queue = 3088, heur = -6.0, depth = 6
iter = 1784, queue = 3087, heur = -6.0, depth = 6
iter = 1785, queue = 3088, heur = -6.0, depth = 6
iter = 1786, queue = 3091, heur = -6.0, depth = 6
iter = 1787, queue = 3092, heur = -6.0, depth = 6
iter = 1788, queue = 3095, heur = -6.0, depth = 6
iter = 1789, queue = 3096, heur = -6.0, depth = 6
iter = 1790, queue = 3097, heur = -6.0, depth = 6
iter = 1791, queue = 3098, heur = -6.0, depth = 6
iter = 1792, queue = 3099, heur = -6.0, depth = 6
iter = 1793, queue = 3100, heur = -6.0, depth = 6
iter = 1794, queue = 3102, heur = -6.0, depth = 6
iter = 1795, queue = 3105, heur = -6.0, depth = 6
iter = 1796, queue = 3106, heur = -6.0, depth = 6
iter = 1797, queue = 3109, heur = -6.0, depth = 6
iter = 1798, queue = 3109, heur = -6.0, depth = 6
iter = 1799, queue = 3108, heur = -6.0, depth = 6
iter = 1800, queue = 3111, heur = -6.0, depth = 6
iter = 1801, queue = 3112, heur = -6.0, depth = 6
iter = 1802, queue = 3112, heur = -6.0, depth = 6
iter = 1803, queue = 3112, heur = -6.0, depth = 6
iter = 1804, queue = 3115, heur = -6.0, depth = 6
iter = 1805, queue = 3114, heur = -6.0, depth = 7
iter = 1806, queue = 3117, heur = -6.0, depth = 6
iter = 1807, queue = 3116, heur = -6.0, depth = 7
iter = 1808, queue = 3118, heur = -6.0, depth = 6
iter = 1809, queue = 3117, heur = -6.0, depth = 6
iter = 1810, queue = 3116, heur = -6.0, depth = 6
iter = 1811, queue = 3116, heur = -6.0, depth = 6
iter = 1812, queue = 3117, heur = -6.0, depth = 6
iter = 1813, queue = 3118, heur = -6.0, depth = 6
iter = 1814, queue = 3118, heur = -6.0, depth = 6
iter = 1815, queue = 3117, heur = -6.0, depth = 6
iter = 1816, queue = 3118, heur = -6.0, depth = 6
iter = 1817, queue = 3119, heur = -6.0, depth = 6
iter = 1818, queue = 3121, heur = -6.0, depth = 6
iter = 1819, queue = 3121, heur = -6.0, depth = 6
iter = 1820, queue = 3122, heur = -6.0, depth = 6
iter = 1821, queue = 3123, heur = -6.0, depth = 6
iter = 1822, queue = 3124, heur = -6.0, depth = 6
iter = 1823, queue = 3124, heur = -6.0, depth = 6
iter = 1824, queue = 3126, heur = -6.0, depth = 6
iter = 1825, queue = 3127, heur = -6.0, depth = 6
iter = 1826, queue = 3128, heur = -6.0, depth = 6
iter = 1827, queue = 3131, heur = -6.0, depth = 6
iter = 1828, queue = 3132, heur = -6.0, depth = 6
iter = 1829, queue = 3131, heur = -6.0, depth = 6
iter = 1830, queue = 3133, heur = -6.0, depth = 6
iter = 1831, queue = 3135, heur = -6.0, depth = 6
```

```
iter = 1832, queue = 3136, heur = -6.0, depth = 6
iter = 1833, queue = 3138, heur = -6.0, depth = 6
iter = 1834, queue = 3139, heur = -6.0, depth = 6
iter = 1835, queue = 3142, heur = -6.0, depth = 6
iter = 1836, queue = 3145, heur = -6.0, depth = 6
iter = 1837, queue = 3146, heur = -6.0, depth = 6
iter = 1838, queue = 3146, heur = -6.0, depth = 6
iter = 1839, queue = 3147, heur = -6.0, depth = 6
iter = 1840, queue = 3148, heur = -6.0, depth = 6
iter = 1841, queue = 3150, heur = -6.0, depth = 6
iter = 1842, queue = 3153, heur = -6.0, depth = 6
iter = 1843, queue = 3154, heur = -6.0, depth = 6
iter = 1844, queue = 3157, heur = -6.0, depth = 6
iter = 1845, queue = 3158, heur = -6.0, depth = 6
iter = 1846, queue = 3159, heur = -6.0, depth = 6
iter = 1847, queue = 3161, heur = -6.0, depth = 6
iter = 1848, queue = 3162, heur = -6.0, depth = 6
iter = 1849, queue = 3165, heur = -6.0, depth = 6
iter = 1850, queue = 3168, heur = -6.0, depth = 6
iter = 1851, queue = 3171, heur = -6.0, depth = 6
iter = 1852, queue = 3174, heur = -6.0, depth = 6
iter = 1853, queue = 3177, heur = -6.0, depth = 6
iter = 1854, queue = 3178, heur = -6.0, depth = 6
iter = 1855, queue = 3181, heur = -6.0, depth = 6
iter = 1856, queue = 3182, heur = -6.0, depth = 6
iter = 1857, queue = 3184, heur = -6.0, depth = 6
iter = 1858, queue = 3185, heur = -6.0, depth = 6
iter = 1859, queue = 3188, heur = -6.0, depth = 6
iter = 1860, queue = 3189, heur = -6.0, depth = 6
iter = 1861, queue = 3190, heur = -6.0, depth = 6
iter = 1862, queue = 3190, heur = -6.0, depth = 6
iter = 1863, queue = 3193, heur = -6.0, depth = 9
iter = 1864, queue = 3194, heur = -6.0, depth = 6
iter = 1865, queue = 3195, heur = -6.0, depth = 6
iter = 1866, queue = 3198, heur = -6.0, depth = 6
iter = 1867, queue = 3198, heur = -6.0, depth = 6
iter = 1868, queue = 3201, heur = -6.0, depth = 6
iter = 1869, queue = 3201, heur = -6.0, depth = 6
iter = 1870, queue = 3203, heur = -6.0, depth = 6
iter = 1871, queue = 3205, heur = -6.0, depth = 6
iter = 1872, queue = 3204, heur = -6.0, depth = 6
iter = 1873, queue = 3205, heur = -6.0, depth = 6
iter = 1874, queue = 3206, heur = -6.0, depth = 6
iter = 1875, queue = 3207, heur = -6.0, depth = 6
iter = 1876, queue = 3209, heur = -6.0, depth = 6
iter = 1877, queue = 3210, heur = -6.0, depth = 6
iter = 1878, queue = 3211, heur = -6.0, depth = 6
iter = 1879, queue = 3212, heur = -6.0, depth = 6
iter = 1880, queue = 3213, heur = -6.0, depth = 6
iter = 1881, queue = 3216, heur = -6.0, depth = 6
iter = 1882, queue = 3219, heur = -6.0, depth = 6
iter = 1883, queue = 3222, heur = -6.0, depth = 6
iter = 1884, queue = 3223, heur = -6.0, depth = 6
iter = 1885, queue = 3224, heur = -6.0, depth = 6
iter = 1886, queue = 3225, heur = -6.0, depth = 6
iter = 1887, queue = 3226, heur = -6.0, depth = 6
iter = 1888, queue = 3227, heur = -6.0, depth = 6
iter = 1889, queue = 3228, heur = -6.0, depth = 6
iter = 1890, queue = 3231, heur = -6.0, depth = 6
```

```
iter = 1891, queue = 3234, heur = -6.0, depth = 6
iter = 1892, queue = 3235, heur = -6.0, depth = 6
iter = 1893, queue = 3238, heur = -6.0, depth = 6
iter = 1894, queue = 3240, heur = -6.0, depth = 7
iter = 1895, queue = 3241, heur = -6.0, depth = 6
iter = 1896, queue = 3243, heur = -6.0, depth = 7
iter = 1897, queue = 3245, heur = -6.0, depth = 6
iter = 1898, queue = 3244, heur = -6.0, depth = 6
iter = 1899, queue = 3247, heur = -6.0, depth = 6
iter = 1900, queue = 3247, heur = -6.0, depth = 6
iter = 1901, queue = 3250, heur = -6.0, depth = 6
iter = 1902, queue = 3253, heur = -6.0, depth = 6
iter = 1903, queue = 3256, heur = -6.0, depth = 6
iter = 1904, queue = 3257, heur = -6.0, depth = 6
iter = 1905, queue = 3259, heur = -6.0, depth = 6
iter = 1906, queue = 3260, heur = -6.0, depth = 6
iter = 1907, queue = 3263, heur = -6.0, depth = 6
iter = 1908, queue = 3264, heur = -6.0, depth = 6
iter = 1909, queue = 3264, heur = -6.0, depth = 6
iter = 1910, queue = 3264, heur = -6.0, depth = 6
iter = 1911, queue = 3267, heur = -6.0, depth = 6
iter = 1912, queue = 3270, heur = -6.0, depth = 6
iter = 1913, queue = 3273, heur = -6.0, depth = 6
iter = 1914, queue = 3273, heur = -6.0, depth = 6
iter = 1915, queue = 3273, heur = -6.0, depth = 6
iter = 1916, queue = 3274, heur = -6.0, depth = 6
iter = 1917, queue = 3276, heur = -6.0, depth = 6
iter = 1918, queue = 3276, heur = -6.0, depth = 6
iter = 1919, queue = 3277, heur = -6.0, depth = 6
iter = 1920, queue = 3278, heur = -6.0, depth = 6
iter = 1921, queue = 3278, heur = -6.0, depth = 6
iter = 1922, queue = 3279, heur = -6.0, depth = 6
iter = 1923, queue = 3281, heur = -6.0, depth = 6
iter = 1924, queue = 3282, heur = -6.0, depth = 6
iter = 1925, queue = 3285, heur = -6.0, depth = 6
iter = 1926, queue = 3286, heur = -6.0, depth = 6
iter = 1927, queue = 3288, heur = -6.0, depth = 6
iter = 1928, queue = 3291, heur = -6.0, depth = 6
iter = 1929, queue = 3294, heur = -6.0, depth = 6
iter = 1930, queue = 3295, heur = -6.0, depth = 6
iter = 1931, queue = 3296, heur = -6.0, depth = 6
iter = 1932, queue = 3299, heur = -6.0, depth = 6
iter = 1933, queue = 3300, heur = -6.0, depth = 6
iter = 1934, queue = 3301, heur = -6.0, depth = 6
iter = 1935, queue = 3304, heur = -6.0, depth = 6
iter = 1936, queue = 3305, heur = -6.0, depth = 6
iter = 1937, queue = 3305, heur = -6.0, depth = 6
iter = 1938, queue = 3305, heur = -6.0, depth = 6
iter = 1939, queue = 3306, heur = -6.0, depth = 6
iter = 1940, queue = 3307, heur = -6.0, depth = 6
iter = 1941, queue = 3308, heur = -6.0, depth = 6
iter = 1942, queue = 3311, heur = -6.0, depth = 6
iter = 1943, queue = 3314, heur = -6.0, depth = 6
iter = 1944, queue = 3315, heur = -6.0, depth = 6
iter = 1945, queue = 3316, heur = -6.0, depth = 6
iter = 1946, queue = 3316, heur = -6.0, depth = 6
iter = 1947, queue = 3319, heur = -6.0, depth = 6
iter = 1948, queue = 3321, heur = -6.0, depth = 6
iter = 1949, queue = 3322, heur = -6.0, depth = 6
```

```
iter = 1950, queue = 3323, heur = -6.0, depth = 6
iter = 1951, queue = 3324, heur = -6.0, depth = 6
iter = 1952, queue = 3323, heur = -6.0, depth = 6
iter = 1953, queue = 3325, heur = -6.0, depth = 6
iter = 1954, queue = 3328, heur = -6.0, depth = 6
iter = 1955, queue = 3328, heur = -6.0, depth = 6
iter = 1956, queue = 3328, heur = -6.0, depth = 6
iter = 1957, queue = 3329, heur = -6.0, depth = 6
iter = 1958, queue = 3330, heur = -6.0, depth = 6
iter = 1959, queue = 3331, heur = -6.0, depth = 6
iter = 1960, queue = 3332, heur = -6.0, depth = 6
iter = 1961, queue = 3335, heur = -6.0, depth = 6
iter = 1962, queue = 3335, heur = -6.0, depth = 6
iter = 1963, queue = 3337, heur = -6.0, depth = 6
iter = 1964, queue = 3338, heur = -6.0, depth = 6
iter = 1965, queue = 3338, heur = -6.0, depth = 6
iter = 1966, queue = 3339, heur = -6.0, depth = 6
iter = 1967, queue = 3340, heur = -6.0, depth = 6
iter = 1968, queue = 3343, heur = -6.0, depth = 6
iter = 1969, queue = 3342, heur = -6.0, depth = 6
iter = 1970, queue = 3345, heur = -6.0, depth = 6
iter = 1971, queue = 3346, heur = -6.0, depth = 6
iter = 1972, queue = 3348, heur = -6.0, depth = 6
iter = 1973, queue = 3349, heur = -6.0, depth = 6
iter = 1974, queue = 3352, heur = -6.0, depth = 6
iter = 1975, queue = 3353, heur = -6.0, depth = 6
iter = 1976, queue = 3356, heur = -6.0, depth = 6
iter = 1977, queue = 3357, heur = -6.0, depth = 6
iter = 1978, queue = 3360, heur = -6.0, depth = 6
iter = 1979, queue = 3362, heur = -6.0, depth = 6
iter = 1980, queue = 3365, heur = -6.0, depth = 6
iter = 1981, queue = 3366, heur = -6.0, depth = 6
iter = 1982, queue = 3369, heur = -6.0, depth = 6
iter = 1983, queue = 3372, heur = -6.0, depth = 6
iter = 1984, queue = 3375, heur = -6.0, depth = 6
iter = 1985, queue = 3378, heur = -6.0, depth = 6
iter = 1986, queue = 3379, heur = -6.0, depth = 6
iter = 1987, queue = 3381, heur = -6.0, depth = 8
iter = 1988, queue = 3381, heur = -6.0, depth = 6
iter = 1989, queue = 3382, heur = -6.0, depth = 6
iter = 1990, queue = 3383, heur = -6.0, depth = 6
iter = 1991, queue = 3386, heur = -6.0, depth = 6
iter = 1992, queue = 3387, heur = -6.0, depth = 6
iter = 1993, queue = 3388, heur = -6.0, depth = 6
iter = 1994, queue = 3389, heur = -6.0, depth = 6
iter = 1995, queue = 3392, heur = -6.0, depth = 6
iter = 1996, queue = 3395, heur = -6.0, depth = 6
iter = 1997, queue = 3398, heur = -6.0, depth = 6
iter = 1998, queue = 3401, heur = -6.0, depth = 6
iter = 1999, queue = 3404, heur = -6.0, depth = 6
iter = 2000, queue = 3405, heur = -6.0, depth = 6
iter = 2001, queue = 3406, heur = -6.0, depth = 6
iter = 2002, queue = 3407, heur = -6.0, depth = 6
iter = 2003, queue = 3407, heur = -6.0, depth = 6
iter = 2004, queue = 3408, heur = -6.0, depth = 6
iter = 2005, queue = 3409, heur = -6.0, depth = 6
iter = 2006, queue = 3412, heur = -6.0, depth = 6
iter = 2007, queue = 3414, heur = -6.0, depth = 6
iter = 2008, queue = 3417, heur = -6.0, depth = 6
```

```
iter = 2009, queue = 3418, heur = -6.0, depth = 6
iter = 2010, queue = 3420, heur = -6.0, depth = 6
iter = 2011, queue = 3421, heur = -6.0, depth = 6
iter = 2012, queue = 3423, heur = -6.0, depth = 6
iter = 2013, queue = 3426, heur = -6.0, depth = 6
iter = 2014, queue = 3428, heur = -6.0, depth = 6
iter = 2015, queue = 3429, heur = -6.0, depth = 6
iter = 2016, queue = 3432, heur = -6.0, depth = 6
iter = 2017, queue = 3433, heur = -6.0, depth = 6
iter = 2018, queue = 3434, heur = -6.0, depth = 6
iter = 2019, queue = 3435, heur = -6.0, depth = 6
iter = 2020, queue = 3438, heur = -6.0, depth = 6
iter = 2021, queue = 3439, heur = -6.0, depth = 6
iter = 2022, queue = 3440, heur = -6.0, depth = 6
iter = 2023, queue = 3441, heur = -6.0, depth = 6
iter = 2024, queue = 3444, heur = -6.0, depth = 6
iter = 2025, queue = 3445, heur = -6.0, depth = 6
iter = 2026, queue = 3448, heur = -6.0, depth = 6
iter = 2027, queue = 3451, heur = -6.0, depth = 6
iter = 2028, queue = 3452, heur = -6.0, depth = 6
iter = 2029, queue = 3454, heur = -6.0, depth = 6
iter = 2030, queue = 3455, heur = -6.0, depth = 6
iter = 2031, queue = 3456, heur = -6.0, depth = 6
iter = 2032, queue = 3457, heur = -6.0, depth = 6
iter = 2033, queue = 3457, heur = -6.0, depth = 6
iter = 2034, queue = 3459, heur = -6.0, depth = 6
iter = 2035, queue = 3460, heur = -6.0, depth = 6
iter = 2036, queue = 3461, heur = -6.0, depth = 6
iter = 2037, queue = 3463, heur = -6.0, depth = 6
iter = 2038, queue = 3465, heur = -6.0, depth = 6
iter = 2039, queue = 3466, heur = -6.0, depth = 6
iter = 2040, queue = 3467, heur = -6.0, depth = 6
iter = 2041, queue = 3468, heur = -6.0, depth = 6
iter = 2042, queue = 3468, heur = -6.0, depth = 6
iter = 2043, queue = 3471, heur = -6.0, depth = 6
iter = 2044, queue = 3472, heur = -6.0, depth = 6
iter = 2045, queue = 3473, heur = -6.0, depth = 6
iter = 2046, queue = 3473, heur = -6.0, depth = 6
iter = 2047, queue = 3476, heur = -6.0, depth = 6
iter = 2048, queue = 3477, heur = -6.0, depth = 6
iter = 2049, queue = 3478, heur = -6.0, depth = 6
iter = 2050, queue = 3481, heur = -6.0, depth = 6
iter = 2051, queue = 3482, heur = -6.0, depth = 6
iter = 2052, queue = 3483, heur = -6.0, depth = 6
iter = 2053, queue = 3486, heur = -6.0, depth = 6
iter = 2054, queue = 3489, heur = -6.0, depth = 6
iter = 2055, queue = 3492, heur = -6.0, depth = 6
iter = 2056, queue = 3495, heur = -6.0, depth = 7
iter = 2057, queue = 3496, heur = -6.0, depth = 6
iter = 2058, queue = 3497, heur = -6.0, depth = 6
iter = 2059, queue = 3500, heur = -6.0, depth = 6
iter = 2060, queue = 3502, heur = -6.0, depth = 6
iter = 2061, queue = 3504, heur = -6.0, depth = 8
iter = 2062, queue = 3505, heur = -6.0, depth = 6
iter = 2063, queue = 3508, heur = -6.0, depth = 6
iter = 2064, queue = 3509, heur = -6.0, depth = 6
iter = 2065, queue = 3512, heur = -6.0, depth = 6
iter = 2066, queue = 3514, heur = -6.0, depth = 6
iter = 2067, queue = 3515, heur = -6.0, depth = 6
```

```
iter = 2068, queue = 3518, heur = -6.0, depth = 6
iter = 2069, queue = 3521, heur = -6.0, depth = 6
iter = 2070, queue = 3522, heur = -6.0, depth = 6
iter = 2071, queue = 3525, heur = -6.0, depth = 6
iter = 2072, queue = 3526, heur = -6.0, depth = 6
iter = 2073, queue = 3525, heur = -6.0, depth = 6
iter = 2074, queue = 3526, heur = -6.0, depth = 6
iter = 2075, queue = 3527, heur = -6.0, depth = 6
iter = 2076, queue = 3529, heur = -6.0, depth = 6
iter = 2077, queue = 3528, heur = -6.0, depth = 6
iter = 2078, queue = 3528, heur = -6.0, depth = 6
iter = 2079, queue = 3531, heur = -6.0, depth = 6
iter = 2080, queue = 3532, heur = -6.0, depth = 6
iter = 2081, queue = 3534, heur = -6.0, depth = 6
iter = 2082, queue = 3537, heur = -6.0, depth = 6
iter = 2083, queue = 3540, heur = -6.0, depth = 6
iter = 2084, queue = 3542, heur = -6.0, depth = 6
iter = 2085, queue = 3543, heur = -6.0, depth = 6
iter = 2086, queue = 3545, heur = -6.0, depth = 6
iter = 2087, queue = 3547, heur = -6.0, depth = 6
iter = 2088, queue = 3547, heur = -6.0, depth = 6
iter = 2089, queue = 3550, heur = -6.0, depth = 6
iter = 2090, queue = 3553, heur = -6.0, depth = 6
iter = 2091, queue = 3555, heur = -6.0, depth = 6
iter = 2092, queue = 3558, heur = -6.0, depth = 6
iter = 2093, queue = 3559, heur = -6.0, depth = 6
iter = 2094, queue = 3562, heur = -6.0, depth = 6
iter = 2095, queue = 3563, heur = -6.0, depth = 6
iter = 2096, queue = 3564, heur = -6.0, depth = 6
iter = 2097, queue = 3567, heur = -6.0, depth = 6
iter = 2098, queue = 3570, heur = -6.0, depth = 6
iter = 2099, queue = 3571, heur = -6.0, depth = 6
iter = 2100, queue = 3573, heur = -6.0, depth = 6
iter = 2101, queue = 3575, heur = -6.0, depth = 6
iter = 2102, queue = 3576, heur = -6.0, depth = 6
iter = 2103, queue = 3577, heur = -6.0, depth = 6
iter = 2104, queue = 3577, heur = -6.0, depth = 6
iter = 2105, queue = 3579, heur = -6.0, depth = 6
iter = 2106, queue = 3580, heur = -6.0, depth = 6
iter = 2107, queue = 3580, heur = -6.0, depth = 6
iter = 2108, queue = 3583, heur = -6.0, depth = 6
iter = 2109, queue = 3584, heur = -6.0, depth = 6
iter = 2110, queue = 3585, heur = -6.0, depth = 6
iter = 2111, queue = 3586, heur = -6.0, depth = 6
iter = 2112, queue = 3589, heur = -6.0, depth = 7
iter = 2113, queue = 3589, heur = -6.0, depth = 6
iter = 2114, queue = 3590, heur = -6.0, depth = 6
iter = 2115, queue = 3593, heur = -6.0, depth = 6
iter = 2116, queue = 3596, heur = -6.0, depth = 6
iter = 2117, queue = 3597, heur = -6.0, depth = 6
iter = 2118, queue = 3600, heur = -6.0, depth = 6
iter = 2119, queue = 3600, heur = -6.0, depth = 6
iter = 2120, queue = 3601, heur = -6.0, depth = 6
iter = 2121, queue = 3603, heur = -6.0, depth = 6
iter = 2122, queue = 3604, heur = -6.0, depth = 6
iter = 2123, queue = 3605, heur = -6.0, depth = 6
iter = 2124, queue = 3606, heur = -6.0, depth = 6
iter = 2125, queue = 3607, heur = -6.0, depth = 6
iter = 2126, queue = 3608, heur = -6.0, depth = 6
```

```
iter = 2127, queue = 3610, heur = -6.0, depth = 6
iter = 2128, queue = 3613, heur = -6.0, depth = 6
iter = 2129, queue = 3616, heur = -6.0, depth = 6
iter = 2130, queue = 3618, heur = -6.0, depth = 6
iter = 2131, queue = 3621, heur = -6.0, depth = 6
iter = 2132, queue = 3624, heur = -6.0, depth = 6
iter = 2133, queue = 3627, heur = -6.0, depth = 6
iter = 2134, queue = 3630, heur = -6.0, depth = 6
iter = 2135, queue = 3633, heur = -6.0, depth = 6
iter = 2136, queue = 3634, heur = -6.0, depth = 6
iter = 2137, queue = 3636, heur = -6.0, depth = 6
iter = 2138, queue = 3639, heur = -6.0, depth = 6
iter = 2139, queue = 3640, heur = -6.0, depth = 6
iter = 2140, queue = 3643, heur = -6.0, depth = 6
iter = 2141, queue = 3644, heur = -6.0, depth = 6
iter = 2142, queue = 3645, heur = -6.0, depth = 6
iter = 2143, queue = 3645, heur = -6.0, depth = 6
iter = 2144, queue = 3647, heur = -6.0, depth = 6
iter = 2145, queue = 3649, heur = -6.0, depth = 6
iter = 2146, queue = 3650, heur = -6.0, depth = 6
iter = 2147, queue = 3651, heur = -6.0, depth = 6
iter = 2148, queue = 3652, heur = -6.0, depth = 6
iter = 2149, queue = 3653, heur = -6.0, depth = 6
iter = 2150, queue = 3654, heur = -6.0, depth = 6
iter = 2151, queue = 3657, heur = -6.0, depth = 6
iter = 2152, queue = 3658, heur = -6.0, depth = 6
iter = 2153, queue = 3659, heur = -6.0, depth = 6
iter = 2154, queue = 3658, heur = -6.0, depth = 6
iter = 2155, queue = 3658, heur = -6.0, depth = 6
iter = 2156, queue = 3659, heur = -6.0, depth = 6
iter = 2157, queue = 3662, heur = -6.0, depth = 6
iter = 2158, queue = 3663, heur = -6.0, depth = 6
iter = 2159, queue = 3665, heur = -6.0, depth = 6
iter = 2160, queue = 3664, heur = -6.0, depth = 6
iter = 2161, queue = 3664, heur = -6.0, depth = 6
iter = 2162, queue = 3664, heur = -6.0, depth = 6
iter = 2163, queue = 3665, heur = -6.0, depth = 6
iter = 2164, queue = 3666, heur = -6.0, depth = 6
iter = 2165, queue = 3667, heur = -6.0, depth = 6
iter = 2166, queue = 3668, heur = -6.0, depth = 6
iter = 2167, queue = 3671, heur = -6.0, depth = 6
iter = 2168, queue = 3671, heur = -6.0, depth = 6
iter = 2169, queue = 3674, heur = -6.0, depth = 6
iter = 2170, queue = 3675, heur = -6.0, depth = 6
iter = 2171, queue = 3676, heur = -6.0, depth = 6
iter = 2172, queue = 3677, heur = -6.0, depth = 6
iter = 2173, queue = 3676, heur = -6.0, depth = 6
iter = 2174, queue = 3677, heur = -6.0, depth = 6
iter = 2175, queue = 3678, heur = -6.0, depth = 6
iter = 2176, queue = 3679, heur = -6.0, depth = 6
iter = 2177, queue = 3681, heur = -6.0, depth = 6
iter = 2178, queue = 3682, heur = -6.0, depth = 6
iter = 2179, queue = 3685, heur = -6.0, depth = 6
iter = 2180, queue = 3687, heur = -6.0, depth = 6
iter = 2181, queue = 3690, heur = -6.0, depth = 6
iter = 2182, queue = 3690, heur = -6.0, depth = 6
iter = 2183, queue = 3690, heur = -6.0, depth = 6
iter = 2184, queue = 3691, heur = -6.0, depth = 6
iter = 2185, queue = 3693, heur = -6.0, depth = 6
```

```
iter = 2186, queue = 3694, heur = -6.0, depth = 6
iter = 2187, queue = 3696, heur = -6.0, depth = 6
iter = 2188, queue = 3697, heur = -6.0, depth = 6
iter = 2189, queue = 3700, heur = -6.0, depth = 6
iter = 2190, queue = 3701, heur = -6.0, depth = 6
iter = 2191, queue = 3704, heur = -6.0, depth = 6
iter = 2192, queue = 3707, heur = -6.0, depth = 6
iter = 2193, queue = 3708, heur = -6.0, depth = 6
iter = 2194, queue = 3708, heur = -6.0, depth = 6
iter = 2195, queue = 3707, heur = -6.0, depth = 6
iter = 2196, queue = 3709, heur = -6.0, depth = 6
iter = 2197, queue = 3710, heur = -6.0, depth = 6
iter = 2198, queue = 3711, heur = -6.0, depth = 6
iter = 2199, queue = 3712, heur = -6.0, depth = 6
iter = 2200, queue = 3713, heur = -6.0, depth = 6
iter = 2201, queue = 3715, heur = -6.0, depth = 6
iter = 2202, queue = 3718, heur = -6.0, depth = 6
iter = 2203, queue = 3717, heur = -6.0, depth = 6
iter = 2204, queue = 3718, heur = -6.0, depth = 6
iter = 2205, queue = 3719, heur = -6.0, depth = 6
iter = 2206, queue = 3721, heur = -6.0, depth = 6
iter = 2207, queue = 3722, heur = -6.0, depth = 6
iter = 2208, queue = 3725, heur = -6.0, depth = 6
iter = 2209, queue = 3724, heur = -6.0, depth = 6
iter = 2210, queue = 3727, heur = -6.0, depth = 6
iter = 2211, queue = 3728, heur = -6.0, depth = 6
iter = 2212, queue = 3729, heur = -6.0, depth = 6
iter = 2213, queue = 3731, heur = -6.0, depth = 6
iter = 2214, queue = 3732, heur = -6.0, depth = 6
iter = 2215, queue = 3732, heur = -6.0, depth = 6
iter = 2216, queue = 3733, heur = -6.0, depth = 6
iter = 2217, queue = 3734, heur = -6.0, depth = 6
iter = 2218, queue = 3734, heur = -6.0, depth = 6
iter = 2219, queue = 3737, heur = -6.0, depth = 6
iter = 2220, queue = 3738, heur = -6.0, depth = 6
iter = 2221, queue = 3739, heur = -6.0, depth = 6
iter = 2222, queue = 3741, heur = -6.0, depth = 6
iter = 2223, queue = 3744, heur = -6.0, depth = 6
iter = 2224, queue = 3746, heur = -6.0, depth = 6
iter = 2225, queue = 3747, heur = -6.0, depth = 6
iter = 2226, queue = 3750, heur = -6.0, depth = 6
iter = 2227, queue = 3753, heur = -6.0, depth = 6
iter = 2228, queue = 3756, heur = -6.0, depth = 6
iter = 2229, queue = 3757, heur = -6.0, depth = 6
iter = 2230, queue = 3758, heur = -6.0, depth = 6
iter = 2231, queue = 3758, heur = -6.0, depth = 6
iter = 2232, queue = 3760, heur = -6.0, depth = 6
iter = 2233, queue = 3760, heur = -6.0, depth = 6
iter = 2234, queue = 3761, heur = -6.0, depth = 6
iter = 2235, queue = 3762, heur = -6.0, depth = 6
iter = 2236, queue = 3764, heur = -6.0, depth = 6
iter = 2237, queue = 3765, heur = -6.0, depth = 6
iter = 2238, queue = 3765, heur = -6.0, depth = 6
iter = 2239, queue = 3767, heur = -6.0, depth = 6
iter = 2240, queue = 3770, heur = -6.0, depth = 6
iter = 2241, queue = 3772, heur = -6.0, depth = 6
iter = 2242, queue = 3771, heur = -6.0, depth = 6
iter = 2243, queue = 3774, heur = -6.0, depth = 6
iter = 2244, queue = 3775, heur = -6.0, depth = 6
```

```
iter = 2245, queue = 3777, heur = -6.0, depth = 6
iter = 2246, queue = 3780, heur = -6.0, depth = 6
iter = 2247, queue = 3783, heur = -6.0, depth = 6
iter = 2248, queue = 3785, heur = -6.0, depth = 6
iter = 2249, queue = 3788, heur = -6.0, depth = 6
iter = 2250, queue = 3791, heur = -6.0, depth = 6
iter = 2251, queue = 3791, heur = -6.0, depth = 6
iter = 2252, queue = 3790, heur = -6.0, depth = 6
iter = 2253, queue = 3792, heur = -6.0, depth = 6
iter = 2254, queue = 3795, heur = -6.0, depth = 6
iter = 2255, queue = 3798, heur = -6.0, depth = 6
iter = 2256, queue = 3799, heur = -6.0, depth = 6
iter = 2257, queue = 3802, heur = -6.0, depth = 6
iter = 2258, queue = 3803, heur = -6.0, depth = 6
iter = 2259, queue = 3804, heur = -6.0, depth = 6
iter = 2260, queue = 3805, heur = -6.0, depth = 6
iter = 2261, queue = 3808, heur = -6.0, depth = 6
iter = 2262, queue = 3811, heur = -6.0, depth = 6
iter = 2263, queue = 3812, heur = -6.0, depth = 6
iter = 2264, queue = 3815, heur = -6.0, depth = 6
iter = 2265, queue = 3818, heur = -6.0, depth = 6
iter = 2266, queue = 3819, heur = -6.0, depth = 6
iter = 2267, queue = 3820, heur = -6.0, depth = 6
iter = 2268, queue = 3823, heur = -6.0, depth = 6
iter = 2269, queue = 3824, heur = -6.0, depth = 6
iter = 2270, queue = 3824, heur = -6.0, depth = 6
iter = 2271, queue = 3827, heur = -6.0, depth = 6
iter = 2272, queue = 3830, heur = -6.0, depth = 6
iter = 2273, queue = 3832, heur = -6.0, depth = 6
iter = 2274, queue = 3835, heur = -6.0, depth = 6
iter = 2275, queue = 3836, heur = -6.0, depth = 7
iter = 2276, queue = 3837, heur = -6.0, depth = 6
iter = 2277, queue = 3840, heur = -6.0, depth = 6
iter = 2278, queue = 3839, heur = -6.0, depth = 6
iter = 2279, queue = 3838, heur = -6.0, depth = 6
iter = 2280, queue = 3839, heur = -6.0, depth = 6
iter = 2281, queue = 3840, heur = -6.0, depth = 6
iter = 2282, queue = 3841, heur = -6.0, depth = 6
iter = 2283, queue = 3842, heur = -6.0, depth = 6
iter = 2284, queue = 3843, heur = -6.0, depth = 6
iter = 2285, queue = 3846, heur = -6.0, depth = 6
iter = 2286, queue = 3847, heur = -6.0, depth = 6
iter = 2287, queue = 3848, heur = -6.0, depth = 6
iter = 2288, queue = 3850, heur = -6.0, depth = 6
iter = 2289, queue = 3851, heur = -6.0, depth = 6
iter = 2290, queue = 3852, heur = -6.0, depth = 6
iter = 2291, queue = 3855, heur = -6.0, depth = 6
iter = 2292, queue = 3856, heur = -6.0, depth = 6
iter = 2293, queue = 3858, heur = -6.0, depth = 6
iter = 2294, queue = 3861, heur = -6.0, depth = 6
iter = 2295, queue = 3864, heur = -6.0, depth = 6
iter = 2296, queue = 3867, heur = -6.0, depth = 6
iter = 2297, queue = 3869, heur = -6.0, depth = 6
iter = 2298, queue = 3870, heur = -6.0, depth = 6
iter = 2299, queue = 3873, heur = -6.0, depth = 6
iter = 2300, queue = 3876, heur = -6.0, depth = 6
iter = 2301, queue = 3876, heur = -6.0, depth = 6
iter = 2302, queue = 3879, heur = -6.0, depth = 6
iter = 2303, queue = 3881, heur = -6.0, depth = 6
```

```
iter = 2304, queue = 3882, heur = -6.0, depth = 6
iter = 2305, queue = 3883, heur = -6.0, depth = 6
iter = 2306, queue = 3884, heur = -6.0, depth = 6
iter = 2307, queue = 3884, heur = -6.0, depth = 6
iter = 2308, queue = 3887, heur = -6.0, depth = 6
iter = 2309, queue = 3888, heur = -6.0, depth = 6
iter = 2310, queue = 3889, heur = -6.0, depth = 6
iter = 2311, queue = 3892, heur = -6.0, depth = 6
iter = 2312, queue = 3892, heur = -6.0, depth = 6
iter = 2313, queue = 3892, heur = -6.0, depth = 6
iter = 2314, queue = 3895, heur = -6.0, depth = 6
iter = 2315, queue = 3898, heur = -6.0, depth = 6
iter = 2316, queue = 3899, heur = -6.0, depth = 6
iter = 2317, queue = 3898, heur = -6.0, depth = 6
iter = 2318, queue = 3898, heur = -6.0, depth = 7
iter = 2319, queue = 3899, heur = -6.0, depth = 6
iter = 2320, queue = 3902, heur = -6.0, depth = 6
iter = 2321, queue = 3903, heur = -6.0, depth = 6
iter = 2322, queue = 3903, heur = -6.0, depth = 6
iter = 2323, queue = 3904, heur = -6.0, depth = 6
iter = 2324, queue = 3903, heur = -6.0, depth = 6
iter = 2325, queue = 3903, heur = -6.0, depth = 6
iter = 2326, queue = 3904, heur = -6.0, depth = 6
iter = 2327, queue = 3904, heur = -6.0, depth = 6
iter = 2328, queue = 3904, heur = -6.0, depth = 6
iter = 2329, queue = 3907, heur = -6.0, depth = 6
iter = 2330, queue = 3910, heur = -6.0, depth = 6
iter = 2331, queue = 3913, heur = -6.0, depth = 6
iter = 2332, queue = 3912, heur = -6.0, depth = 7
iter = 2333, queue = 3913, heur = -6.0, depth = 6
iter = 2334, queue = 3916, heur = -6.0, depth = 6
iter = 2335, queue = 3917, heur = -6.0, depth = 6
iter = 2336, queue = 3920, heur = -6.0, depth = 6
iter = 2337, queue = 3921, heur = -6.0, depth = 6
iter = 2338, queue = 3924, heur = -6.0, depth = 6
iter = 2339, queue = 3924, heur = -6.0, depth = 6
iter = 2340, queue = 3926, heur = -6.0, depth = 6
iter = 2341, queue = 3927, heur = -6.0, depth = 6
iter = 2342, queue = 3930, heur = -6.0, depth = 6
iter = 2343, queue = 3932, heur = -6.0, depth = 6
iter = 2344, queue = 3933, heur = -6.0, depth = 6
iter = 2345, queue = 3934, heur = -6.0, depth = 6
iter = 2346, queue = 3936, heur = -6.0, depth = 6
iter = 2347, queue = 3938, heur = -6.0, depth = 6
iter = 2348, queue = 3941, heur = -6.0, depth = 6
iter = 2349, queue = 3942, heur = -6.0, depth = 6
iter = 2350, queue = 3944, heur = -6.0, depth = 6
iter = 2351, queue = 3943, heur = -6.0, depth = 6
iter = 2352, queue = 3944, heur = -6.0, depth = 6
iter = 2353, queue = 3947, heur = -6.0, depth = 6
iter = 2354, queue = 3948, heur = -6.0, depth = 6
iter = 2355, queue = 3950, heur = -6.0, depth = 6
iter = 2356, queue = 3950, heur = -6.0, depth = 6
iter = 2357, queue = 3953, heur = -6.0, depth = 6
iter = 2358, queue = 3954, heur = -6.0, depth = 6
iter = 2359, queue = 3955, heur = -6.0, depth = 6
iter = 2360, queue = 3958, heur = -6.0, depth = 6
iter = 2361, queue = 3958, heur = -6.0, depth = 6
iter = 2362, queue = 3959, heur = -6.0, depth = 6
```

```
iter = 2363, queue = 3962, heur = -6.0, depth = 6
iter = 2364, queue = 3963, heur = -6.0, depth = 6
iter = 2365, queue = 3966, heur = -6.0, depth = 6
iter = 2366, queue = 3967, heur = -6.0, depth = 6
iter = 2367, queue = 3968, heur = -6.0, depth = 7
iter = 2368, queue = 3969, heur = -6.0, depth = 6
iter = 2369, queue = 3971, heur = -6.0, depth = 6
iter = 2370, queue = 3974, heur = -6.0, depth = 6
iter = 2371, queue = 3975, heur = -6.0, depth = 6
iter = 2372, queue = 3976, heur = -6.0, depth = 6
iter = 2373, queue = 3976, heur = -6.0, depth = 6
iter = 2374, queue = 3977, heur = -6.0, depth = 6
iter = 2375, queue = 3976, heur = -6.0, depth = 6
iter = 2376, queue = 3976, heur = -6.0, depth = 6
iter = 2377, queue = 3978, heur = -6.0, depth = 6
iter = 2378, queue = 3979, heur = -6.0, depth = 6
iter = 2379, queue = 3982, heur = -6.0, depth = 6
iter = 2380, queue = 3983, heur = -6.0, depth = 6
iter = 2381, queue = 3984, heur = -6.0, depth = 6
iter = 2382, queue = 3985, heur = -6.0, depth = 6
iter = 2383, queue = 3984, heur = -6.0, depth = 6
iter = 2384, queue = 3985, heur = -6.0, depth = 6
iter = 2385, queue = 3988, heur = -6.0, depth = 6
iter = 2386, queue = 3989, heur = -6.0, depth = 6
iter = 2387, queue = 3991, heur = -6.0, depth = 6
iter = 2388, queue = 3992, heur = -6.0, depth = 6
iter = 2389, queue = 3992, heur = -6.0, depth = 6
iter = 2390, queue = 3993, heur = -6.0, depth = 6
iter = 2391, queue = 3994, heur = -6.0, depth = 6
iter = 2392, queue = 3996, heur = -6.0, depth = 6
iter = 2393, queue = 3997, heur = -6.0, depth = 6
iter = 2394, queue = 3998, heur = -6.0, depth = 6
iter = 2395, queue = 3997, heur = -6.0, depth = 6
iter = 2396, queue = 3998, heur = -6.0, depth = 6
iter = 2397, queue = 3999, heur = -6.0, depth = 6
iter = 2398, queue = 4000, heur = -6.0, depth = 6
iter = 2399, queue = 4002, heur = -6.0, depth = 6
iter = 2400, queue = 4002, heur = -6.0, depth = 6
iter = 2401, queue = 4003, heur = -6.0, depth = 6
iter = 2402, queue = 4004, heur = -6.0, depth = 6
iter = 2403, queue = 4005, heur = -6.0, depth = 6
iter = 2404, queue = 4004, heur = -6.0, depth = 6
iter = 2405, queue = 4004, heur = -6.0, depth = 6
iter = 2406, queue = 4005, heur = -6.0, depth = 6
iter = 2407, queue = 4005, heur = -6.0, depth = 6
iter = 2408, queue = 4006, heur = -6.0, depth = 6
iter = 2409, queue = 4005, heur = -6.0, depth = 6
iter = 2410, queue = 4006, heur = -6.0, depth = 6
iter = 2411, queue = 4009, heur = -6.0, depth = 7
iter = 2412, queue = 4011, heur = -6.0, depth = 6
iter = 2413, queue = 4014, heur = -6.0, depth = 8
iter = 2414, queue = 4016, heur = -6.0, depth = 6
iter = 2415, queue = 4017, heur = -6.0, depth = 9
iter = 2416, queue = 4019, heur = -6.0, depth = 6
iter = 2417, queue = 4019, heur = -6.0, depth = 6
iter = 2418, queue = 4021, heur = -6.0, depth = 6
iter = 2419, queue = 4024, heur = -6.0, depth = 6
iter = 2420, queue = 4025, heur = -6.0, depth = 6
iter = 2421, queue = 4024, heur = -6.0, depth = 7
```

```
iter = 2422, queue = 4025, heur = -6.0, depth = 6
iter = 2423, queue = 4028, heur = -6.0, depth = 6
iter = 2424, queue = 4028, heur = -6.0, depth = 6
iter = 2425, queue = 4031, heur = -6.0, depth = 6
iter = 2426, queue = 4034, heur = -6.0, depth = 6
iter = 2427, queue = 4037, heur = -6.0, depth = 6
iter = 2428, queue = 4039, heur = -6.0, depth = 6
iter = 2429, queue = 4041, heur = -6.0, depth = 6
iter = 2430, queue = 4042, heur = -6.0, depth = 6
iter = 2431, queue = 4045, heur = -6.0, depth = 6
iter = 2432, queue = 4048, heur = -6.0, depth = 7
iter = 2433, queue = 4049, heur = -6.0, depth = 6
iter = 2434, queue = 4050, heur = -6.0, depth = 6
iter = 2435, queue = 4053, heur = -6.0, depth = 6
iter = 2436, queue = 4054, heur = -6.0, depth = 6
iter = 2437, queue = 4055, heur = -6.0, depth = 6
iter = 2438, queue = 4057, heur = -6.0, depth = 6
iter = 2439, queue = 4058, heur = -6.0, depth = 6
iter = 2440, queue = 4058, heur = -6.0, depth = 7
iter = 2441, queue = 4060, heur = -6.0, depth = 6
iter = 2442, queue = 4060, heur = -6.0, depth = 6
iter = 2443, queue = 4059, heur = -6.0, depth = 6
iter = 2444, queue = 4060, heur = -6.0, depth = 6
iter = 2445, queue = 4063, heur = -6.0, depth = 6
iter = 2446, queue = 4063, heur = -6.0, depth = 6
iter = 2447, queue = 4066, heur = -6.0, depth = 6
iter = 2448, queue = 4069, heur = -6.0, depth = 6
iter = 2449, queue = 4072, heur = -6.0, depth = 6
iter = 2450, queue = 4073, heur = -6.0, depth = 6
iter = 2451, queue = 4074, heur = -6.0, depth = 6
iter = 2452, queue = 4075, heur = -6.0, depth = 6
iter = 2453, queue = 4076, heur = -6.0, depth = 6
iter = 2454, queue = 4077, heur = -6.0, depth = 6
iter = 2455, queue = 4080, heur = -6.0, depth = 6
iter = 2456, queue = 4081, heur = -6.0, depth = 6
iter = 2457, queue = 4082, heur = -6.0, depth = 6
iter = 2458, queue = 4085, heur = -6.0, depth = 6
iter = 2459, queue = 4088, heur = -6.0, depth = 6
iter = 2460, queue = 4091, heur = -6.0, depth = 6
iter = 2461, queue = 4093, heur = -6.0, depth = 6
iter = 2462, queue = 4093, heur = -6.0, depth = 6
iter = 2463, queue = 4092, heur = -6.0, depth = 6
iter = 2464, queue = 4093, heur = -6.0, depth = 6
iter = 2465, queue = 4096, heur = -6.0, depth = 6
iter = 2466, queue = 4099, heur = -6.0, depth = 6
iter = 2467, queue = 4100, heur = -6.0, depth = 6
iter = 2468, queue = 4101, heur = -6.0, depth = 6
iter = 2469, queue = 4102, heur = -6.0, depth = 6
iter = 2470, queue = 4105, heur = -6.0, depth = 6
iter = 2471, queue = 4108, heur = -6.0, depth = 6
iter = 2472, queue = 4109, heur = -6.0, depth = 6
iter = 2473, queue = 4112, heur = -6.0, depth = 6
iter = 2474, queue = 4113, heur = -6.0, depth = 6
iter = 2475, queue = 4115, heur = -6.0, depth = 6
iter = 2476, queue = 4116, heur = -6.0, depth = 6
iter = 2477, queue = 4118, heur = -6.0, depth = 6
iter = 2478, queue = 4121, heur = -6.0, depth = 6
iter = 2479, queue = 4123, heur = -6.0, depth = 6
iter = 2480, queue = 4126, heur = -6.0, depth = 6
```

```
iter = 2481, queue = 4128, heur = -6.0, depth = 6
iter = 2482, queue = 4129, heur = -6.0, depth = 6
iter = 2483, queue = 4131, heur = -6.0, depth = 6
iter = 2484, queue = 4133, heur = -6.0, depth = 6
iter = 2485, queue = 4136, heur = -6.0, depth = 6
iter = 2486, queue = 4136, heur = -6.0, depth = 6
iter = 2487, queue = 4139, heur = -6.0, depth = 6
iter = 2488, queue = 4140, heur = -6.0, depth = 6
iter = 2489, queue = 4143, heur = -6.0, depth = 6
iter = 2490, queue = 4143, heur = -6.0, depth = 6
iter = 2491, queue = 4144, heur = -6.0, depth = 7
iter = 2492, queue = 4146, heur = -6.0, depth = 6
iter = 2493, queue = 4145, heur = -6.0, depth = 6
iter = 2494, queue = 4146, heur = -6.0, depth = 6
iter = 2495, queue = 4149, heur = -6.0, depth = 6
iter = 2496, queue = 4150, heur = -6.0, depth = 6
iter = 2497, queue = 4151, heur = -6.0, depth = 6
iter = 2498, queue = 4150, heur = -6.0, depth = 6
iter = 2499, queue = 4152, heur = -6.0, depth = 6
iter = 2500, queue = 4155, heur = -6.0, depth = 6
iter = 2501, queue = 4158, heur = -6.0, depth = 6
iter = 2502, queue = 4159, heur = -6.0, depth = 6
iter = 2503, queue = 4160, heur = -6.0, depth = 6
iter = 2504, queue = 4162, heur = -6.0, depth = 6
iter = 2505, queue = 4165, heur = -6.0, depth = 6
iter = 2506, queue = 4165, heur = -6.0, depth = 6
iter = 2507, queue = 4168, heur = -6.0, depth = 6
iter = 2508, queue = 4169, heur = -6.0, depth = 6
iter = 2509, queue = 4170, heur = -6.0, depth = 6
iter = 2510, queue = 4171, heur = -6.0, depth = 6
iter = 2511, queue = 4172, heur = -6.0, depth = 6
iter = 2512, queue = 4174, heur = -6.0, depth = 6
iter = 2513, queue = 4175, heur = -6.0, depth = 6
iter = 2514, queue = 4176, heur = -6.0, depth = 6
iter = 2515, queue = 4179, heur = -6.0, depth = 6
iter = 2516, queue = 4182, heur = -6.0, depth = 6
iter = 2517, queue = 4185, heur = -6.0, depth = 6
iter = 2518, queue = 4184, heur = -6.0, depth = 6
iter = 2519, queue = 4185, heur = -6.0, depth = 7
iter = 2520, queue = 4188, heur = -6.0, depth = 6
iter = 2521, queue = 4189, heur = -6.0, depth = 6
iter = 2522, queue = 4190, heur = -6.0, depth = 6
iter = 2523, queue = 4192, heur = -6.0, depth = 6
iter = 2524, queue = 4193, heur = -6.0, depth = 6
iter = 2525, queue = 4195, heur = -6.0, depth = 6
iter = 2526, queue = 4198, heur = -6.0, depth = 6
iter = 2527, queue = 4200, heur = -6.0, depth = 6
iter = 2528, queue = 4202, heur = -6.0, depth = 6
iter = 2529, queue = 4203, heur = -6.0, depth = 6
iter = 2530, queue = 4203, heur = -6.0, depth = 6
iter = 2531, queue = 4205, heur = -6.0, depth = 6
iter = 2532, queue = 4208, heur = -6.0, depth = 6
iter = 2533, queue = 4211, heur = -6.0, depth = 6
iter = 2534, queue = 4212, heur = -6.0, depth = 6
iter = 2535, queue = 4215, heur = -6.0, depth = 6
iter = 2536, queue = 4218, heur = -6.0, depth = 6
iter = 2537, queue = 4221, heur = -6.0, depth = 6
iter = 2538, queue = 4223, heur = -6.0, depth = 6
iter = 2539, queue = 4226, heur = -6.0, depth = 6
```

```
iter = 2540, queue = 4227, heur = -6.0, depth = 6
iter = 2541, queue = 4230, heur = -6.0, depth = 6
iter = 2542, queue = 4231, heur = -6.0, depth = 6
iter = 2543, queue = 4230, heur = -6.0, depth = 6
iter = 2544, queue = 4231, heur = -6.0, depth = 6
iter = 2545, queue = 4234, heur = -6.0, depth = 6
iter = 2546, queue = 4235, heur = -6.0, depth = 6
iter = 2547, queue = 4235, heur = -6.0, depth = 6
iter = 2548, queue = 4236, heur = -6.0, depth = 6
iter = 2549, queue = 4239, heur = -6.0, depth = 6
iter = 2550, queue = 4242, heur = -6.0, depth = 6
iter = 2551, queue = 4243, heur = -6.0, depth = 6
iter = 2552, queue = 4246, heur = -6.0, depth = 6
iter = 2553, queue = 4246, heur = -6.0, depth = 6
iter = 2554, queue = 4247, heur = -6.0, depth = 6
iter = 2555, queue = 4249, heur = -6.0, depth = 6
iter = 2556, queue = 4251, heur = -6.0, depth = 6
iter = 2557, queue = 4252, heur = -6.0, depth = 6
iter = 2558, queue = 4254, heur = -6.0, depth = 6
iter = 2559, queue = 4256, heur = -6.0, depth = 6
iter = 2560, queue = 4256, heur = -6.0, depth = 7
iter = 2561, queue = 4257, heur = -6.0, depth = 6
iter = 2562, queue = 4258, heur = -6.0, depth = 6
iter = 2563, queue = 4259, heur = -6.0, depth = 6
iter = 2564, queue = 4262, heur = -6.0, depth = 6
iter = 2565, queue = 4263, heur = -6.0, depth = 6
iter = 2566, queue = 4265, heur = -6.0, depth = 6
iter = 2567, queue = 4266, heur = -6.0, depth = 6
iter = 2568, queue = 4265, heur = -6.0, depth = 6
iter = 2569, queue = 4268, heur = -6.0, depth = 6
iter = 2570, queue = 4268, heur = -6.0, depth = 6
iter = 2571, queue = 4267, heur = -6.0, depth = 6
iter = 2572, queue = 4270, heur = -6.0, depth = 6
iter = 2573, queue = 4270, heur = -6.0, depth = 6
iter = 2574, queue = 4270, heur = -6.0, depth = 6
iter = 2575, queue = 4271, heur = -6.0, depth = 6
iter = 2576, queue = 4273, heur = -6.0, depth = 6
iter = 2577, queue = 4274, heur = -6.0, depth = 6
iter = 2578, queue = 4277, heur = -6.0, depth = 6
iter = 2579, queue = 4279, heur = -6.0, depth = 6
iter = 2580, queue = 4282, heur = -6.0, depth = 6
iter = 2581, queue = 4282, heur = -6.0, depth = 6
iter = 2582, queue = 4282, heur = -6.0, depth = 6
iter = 2583, queue = 4284, heur = -6.0, depth = 6
iter = 2584, queue = 4285, heur = -6.0, depth = 6
iter = 2585, queue = 4286, heur = -6.0, depth = 6
iter = 2586, queue = 4288, heur = -6.0, depth = 6
iter = 2587, queue = 4289, heur = -6.0, depth = 6
iter = 2588, queue = 4291, heur = -6.0, depth = 6
iter = 2589, queue = 4292, heur = -6.0, depth = 6
iter = 2590, queue = 4293, heur = -6.0, depth = 7
iter = 2591, queue = 4294, heur = -6.0, depth = 6
iter = 2592, queue = 4295, heur = -6.0, depth = 6
iter = 2593, queue = 4297, heur = -6.0, depth = 6
iter = 2594, queue = 4296, heur = -6.0, depth = 6
iter = 2595, queue = 4299, heur = -6.0, depth = 6
iter = 2596, queue = 4301, heur = -6.0, depth = 6
iter = 2597, queue = 4304, heur = -6.0, depth = 6
iter = 2598, queue = 4306, heur = -6.0, depth = 6
```

```
iter = 2599, queue = 4309, heur = -6.0, depth = 6
iter = 2600, queue = 4312, heur = -6.0, depth = 6
iter = 2601, queue = 4313, heur = -6.0, depth = 6
iter = 2602, queue = 4316, heur = -6.0, depth = 6
iter = 2603, queue = 4317, heur = -6.0, depth = 7
iter = 2604, queue = 4318, heur = -6.0, depth = 6
iter = 2605, queue = 4319, heur = -6.0, depth = 6
iter = 2606, queue = 4320, heur = -6.0, depth = 6
iter = 2607, queue = 4321, heur = -6.0, depth = 6
iter = 2608, queue = 4321, heur = -6.0, depth = 6
iter = 2609, queue = 4324, heur = -6.0, depth = 6
iter = 2610, queue = 4326, heur = -6.0, depth = 6
iter = 2611, queue = 4329, heur = -6.0, depth = 6
iter = 2612, queue = 4332, heur = -6.0, depth = 6
iter = 2613, queue = 4335, heur = -6.0, depth = 6
iter = 2614, queue = 4335, heur = -6.0, depth = 6
iter = 2615, queue = 4334, heur = -6.0, depth = 6
iter = 2616, queue = 4335, heur = -6.0, depth = 6
iter = 2617, queue = 4336, heur = -6.0, depth = 6
iter = 2618, queue = 4338, heur = -6.0, depth = 6
iter = 2619, queue = 4339, heur = -6.0, depth = 6
iter = 2620, queue = 4341, heur = -6.0, depth = 6
iter = 2621, queue = 4342, heur = -6.0, depth = 6
iter = 2622, queue = 4342, heur = -6.0, depth = 6
iter = 2623, queue = 4344, heur = -6.0, depth = 6
iter = 2624, queue = 4346, heur = -6.0, depth = 6
iter = 2625, queue = 4346, heur = -6.0, depth = 6
iter = 2626, queue = 4348, heur = -6.0, depth = 6
iter = 2627, queue = 4347, heur = -6.0, depth = 6
iter = 2628, queue = 4350, heur = -6.0, depth = 6
iter = 2629, queue = 4349, heur = -6.0, depth = 6
iter = 2630, queue = 4350, heur = -6.0, depth = 6
iter = 2631, queue = 4353, heur = -6.0, depth = 6
iter = 2632, queue = 4356, heur = -6.0, depth = 6
iter = 2633, queue = 4356, heur = -6.0, depth = 6
iter = 2634, queue = 4358, heur = -6.0, depth = 6
iter = 2635, queue = 4361, heur = -6.0, depth = 6
iter = 2636, queue = 4362, heur = -6.0, depth = 6
iter = 2637, queue = 4363, heur = -6.0, depth = 6
iter = 2638, queue = 4364, heur = -6.0, depth = 6
iter = 2639, queue = 4365, heur = -6.0, depth = 6
iter = 2640, queue = 4367, heur = -6.0, depth = 6
iter = 2641, queue = 4366, heur = -6.0, depth = 6
iter = 2642, queue = 4369, heur = -6.0, depth = 6
iter = 2643, queue = 4368, heur = -6.0, depth = 6
iter = 2644, queue = 4369, heur = -6.0, depth = 6
iter = 2645, queue = 4371, heur = -6.0, depth = 6
iter = 2646, queue = 4374, heur = -6.0, depth = 6
iter = 2647, queue = 4375, heur = -6.0, depth = 6
iter = 2648, queue = 4376, heur = -6.0, depth = 6
iter = 2649, queue = 4377, heur = -6.0, depth = 6
iter = 2650, queue = 4378, heur = -6.0, depth = 6
iter = 2651, queue = 4378, heur = -6.0, depth = 6
iter = 2652, queue = 4379, heur = -6.0, depth = 6
iter = 2653, queue = 4382, heur = -6.0, depth = 6
iter = 2654, queue = 4385, heur = -6.0, depth = 6
iter = 2655, queue = 4387, heur = -6.0, depth = 6
iter = 2656, queue = 4388, heur = -6.0, depth = 6
iter = 2657, queue = 4390, heur = -6.0, depth = 6
```

```
iter = 2658, queue = 4392, heur = -6.0, depth = 6
iter = 2659, queue = 4395, heur = -6.0, depth = 6
iter = 2660, queue = 4396, heur = -6.0, depth = 8
iter = 2661, queue = 4397, heur = -6.0, depth = 6
iter = 2662, queue = 4400, heur = -6.0, depth = 6
iter = 2663, queue = 4401, heur = -6.0, depth = 6
iter = 2664, queue = 4402, heur = -6.0, depth = 6
iter = 2665, queue = 4403, heur = -6.0, depth = 6
iter = 2666, queue = 4404, heur = -6.0, depth = 6
iter = 2667, queue = 4405, heur = -6.0, depth = 6
iter = 2668, queue = 4408, heur = -6.0, depth = 6
iter = 2669, queue = 4410, heur = -6.0, depth = 6
iter = 2670, queue = 4410, heur = -6.0, depth = 6
iter = 2671, queue = 4413, heur = -6.0, depth = 6
iter = 2672, queue = 4414, heur = -6.0, depth = 6
iter = 2673, queue = 4415, heur = -6.0, depth = 6
iter = 2674, queue = 4418, heur = -6.0, depth = 6
iter = 2675, queue = 4419, heur = -6.0, depth = 6
iter = 2676, queue = 4422, heur = -6.0, depth = 6
iter = 2677, queue = 4423, heur = -6.0, depth = 6
iter = 2678, queue = 4424, heur = -6.0, depth = 6
iter = 2679, queue = 4423, heur = -6.0, depth = 6
iter = 2680, queue = 4423, heur = -6.0, depth = 6
iter = 2681, queue = 4425, heur = -6.0, depth = 6
iter = 2682, queue = 4426, heur = -6.0, depth = 6
iter = 2683, queue = 4425, heur = -6.0, depth = 6
iter = 2684, queue = 4428, heur = -6.0, depth = 6
iter = 2685, queue = 4429, heur = -6.0, depth = 6
iter = 2686, queue = 4431, heur = -6.0, depth = 6
iter = 2687, queue = 4434, heur = -6.0, depth = 6
iter = 2688, queue = 4434, heur = -6.0, depth = 6
iter = 2689, queue = 4435, heur = -6.0, depth = 6
iter = 2690, queue = 4436, heur = -6.0, depth = 6
iter = 2691, queue = 4437, heur = -6.0, depth = 6
iter = 2692, queue = 4439, heur = -6.0, depth = 6
iter = 2693, queue = 4441, heur = -6.0, depth = 6
iter = 2694, queue = 4444, heur = -6.0, depth = 6
iter = 2695, queue = 4447, heur = -6.0, depth = 6
iter = 2696, queue = 4447, heur = -6.0, depth = 6
iter = 2697, queue = 4450, heur = -6.0, depth = 6
iter = 2698, queue = 4453, heur = -6.0, depth = 6
iter = 2699, queue = 4456, heur = -6.0, depth = 6
iter = 2700, queue = 4456, heur = -6.0, depth = 6
iter = 2701, queue = 4458, heur = -6.0, depth = 6
iter = 2702, queue = 4460, heur = -6.0, depth = 6
iter = 2703, queue = 4459, heur = -6.0, depth = 6
iter = 2704, queue = 4460, heur = -6.0, depth = 6
iter = 2705, queue = 4461, heur = -6.0, depth = 6
iter = 2706, queue = 4462, heur = -6.0, depth = 6
iter = 2707, queue = 4464, heur = -6.0, depth = 6
iter = 2708, queue = 4465, heur = -6.0, depth = 6
iter = 2709, queue = 4467, heur = -6.0, depth = 6
iter = 2710, queue = 4470, heur = -6.0, depth = 6
iter = 2711, queue = 4471, heur = -6.0, depth = 6
iter = 2712, queue = 4473, heur = -6.0, depth = 6
iter = 2713, queue = 4474, heur = -6.0, depth = 6
iter = 2714, queue = 4475, heur = -6.0, depth = 6
iter = 2715, queue = 4476, heur = -6.0, depth = 6
iter = 2716, queue = 4477, heur = -6.0, depth = 6
```

```
iter = 2717, queue = 4478, heur = -6.0, depth = 6
iter = 2718, queue = 4480, heur = -6.0, depth = 7
iter = 2719, queue = 4480, heur = -6.0, depth = 6
iter = 2720, queue = 4483, heur = -6.0, depth = 6
iter = 2721, queue = 4486, heur = -6.0, depth = 6
iter = 2722, queue = 4487, heur = -6.0, depth = 6
iter = 2723, queue = 4490, heur = -6.0, depth = 6
iter = 2724, queue = 4493, heur = -6.0, depth = 6
iter = 2725, queue = 4493, heur = -6.0, depth = 6
iter = 2726, queue = 4495, heur = -6.0, depth = 6
iter = 2727, queue = 4498, heur = -6.0, depth = 6
iter = 2728, queue = 4501, heur = -6.0, depth = 6
iter = 2729, queue = 4502, heur = -6.0, depth = 6
iter = 2730, queue = 4502, heur = -6.0, depth = 6
iter = 2731, queue = 4503, heur = -6.0, depth = 6
iter = 2732, queue = 4504, heur = -6.0, depth = 9
iter = 2733, queue = 4505, heur = -6.0, depth = 6
iter = 2734, queue = 4507, heur = -6.0, depth = 6
iter = 2735, queue = 4508, heur = -6.0, depth = 6
iter = 2736, queue = 4511, heur = -6.0, depth = 6
iter = 2737, queue = 4510, heur = -6.0, depth = 6
iter = 2738, queue = 4511, heur = -6.0, depth = 6
iter = 2739, queue = 4512, heur = -6.0, depth = 6
iter = 2740, queue = 4513, heur = -6.0, depth = 6
iter = 2741, queue = 4514, heur = -6.0, depth = 6
iter = 2742, queue = 4514, heur = -6.0, depth = 6
iter = 2743, queue = 4516, heur = -6.0, depth = 6
iter = 2744, queue = 4516, heur = -6.0, depth = 6
iter = 2745, queue = 4519, heur = -6.0, depth = 6
iter = 2746, queue = 4522, heur = -6.0, depth = 6
iter = 2747, queue = 4523, heur = -6.0, depth = 6
iter = 2748, queue = 4524, heur = -6.0, depth = 6
iter = 2749, queue = 4525, heur = -6.0, depth = 6
iter = 2750, queue = 4527, heur = -6.0, depth = 6
iter = 2751, queue = 4530, heur = -6.0, depth = 6
iter = 2752, queue = 4532, heur = -6.0, depth = 6
iter = 2753, queue = 4533, heur = -6.0, depth = 6
iter = 2754, queue = 4536, heur = -6.0, depth = 6
iter = 2755, queue = 4536, heur = -6.0, depth = 6
iter = 2756, queue = 4537, heur = -6.0, depth = 6
iter = 2757, queue = 4536, heur = -6.0, depth = 6
iter = 2758, queue = 4537, heur = -6.0, depth = 6
iter = 2759, queue = 4538, heur = -6.0, depth = 6
iter = 2760, queue = 4541, heur = -6.0, depth = 6
iter = 2761, queue = 4542, heur = -6.0, depth = 6
iter = 2762, queue = 4542, heur = -6.0, depth = 6
iter = 2763, queue = 4542, heur = -6.0, depth = 6
iter = 2764, queue = 4544, heur = -6.0, depth = 6
iter = 2765, queue = 4544, heur = -6.0, depth = 6
iter = 2766, queue = 4547, heur = -6.0, depth = 6
iter = 2767, queue = 4548, heur = -6.0, depth = 6
iter = 2768, queue = 4550, heur = -6.0, depth = 6
iter = 2769, queue = 4551, heur = -6.0, depth = 6
iter = 2770, queue = 4554, heur = -6.0, depth = 6
iter = 2771, queue = 4554, heur = -6.0, depth = 6
iter = 2772, queue = 4554, heur = -6.0, depth = 6
iter = 2773, queue = 4557, heur = -6.0, depth = 6
iter = 2774, queue = 4558, heur = -6.0, depth = 6
iter = 2775, queue = 4558, heur = -6.0, depth = 6
```

```
iter = 2776, queue = 4561, heur = -6.0, depth = 6
iter = 2777, queue = 4564, heur = -6.0, depth = 6
iter = 2778, queue = 4567, heur = -6.0, depth = 6
iter = 2779, queue = 4568, heur = -6.0, depth = 6
iter = 2780, queue = 4570, heur = -6.0, depth = 6
iter = 2781, queue = 4571, heur = -6.0, depth = 6
iter = 2782, queue = 4570, heur = -6.0, depth = 6
iter = 2783, queue = 4571, heur = -6.0, depth = 6
iter = 2784, queue = 4574, heur = -6.0, depth = 6
iter = 2785, queue = 4575, heur = -6.0, depth = 6
iter = 2786, queue = 4576, heur = -6.0, depth = 6
iter = 2787, queue = 4576, heur = -6.0, depth = 6
iter = 2788, queue = 4579, heur = -6.0, depth = 6
iter = 2789, queue = 4580, heur = -6.0, depth = 6
iter = 2790, queue = 4580, heur = -6.0, depth = 6
iter = 2791, queue = 4581, heur = -6.0, depth = 6
iter = 2792, queue = 4581, heur = -6.0, depth = 6
iter = 2793, queue = 4583, heur = -6.0, depth = 6
iter = 2794, queue = 4584, heur = -6.0, depth = 6
iter = 2795, queue = 4587, heur = -6.0, depth = 6
iter = 2796, queue = 4590, heur = -6.0, depth = 6
iter = 2797, queue = 4591, heur = -6.0, depth = 6
iter = 2798, queue = 4594, heur = -6.0, depth = 6
iter = 2799, queue = 4597, heur = -6.0, depth = 6
iter = 2800, queue = 4598, heur = -6.0, depth = 6
iter = 2801, queue = 4597, heur = -6.0, depth = 6
iter = 2802, queue = 4597, heur = -6.0, depth = 6
iter = 2803, queue = 4600, heur = -6.0, depth = 6
iter = 2804, queue = 4601, heur = -6.0, depth = 6
iter = 2805, queue = 4600, heur = -6.0, depth = 6
iter = 2806, queue = 4603, heur = -6.0, depth = 6
iter = 2807, queue = 4604, heur = -6.0, depth = 6
iter = 2808, queue = 4606, heur = -6.0, depth = 6
iter = 2809, queue = 4608, heur = -6.0, depth = 6
iter = 2810, queue = 4609, heur = -6.0, depth = 6
iter = 2811, queue = 4610, heur = -6.0, depth = 6
iter = 2812, queue = 4610, heur = -6.0, depth = 6
iter = 2813, queue = 4613, heur = -6.0, depth = 6
iter = 2814, queue = 4612, heur = -6.0, depth = 6
iter = 2815, queue = 4615, heur = -6.0, depth = 6
iter = 2816, queue = 4618, heur = -6.0, depth = 6
iter = 2817, queue = 4618, heur = -6.0, depth = 6
iter = 2818, queue = 4620, heur = -6.0, depth = 6
iter = 2819, queue = 4621, heur = -6.0, depth = 6
iter = 2820, queue = 4624, heur = -6.0, depth = 6
iter = 2821, queue = 4627, heur = -6.0, depth = 6
iter = 2822, queue = 4628, heur = -6.0, depth = 6
iter = 2823, queue = 4628, heur = -6.0, depth = 6
iter = 2824, queue = 4631, heur = -6.0, depth = 6
iter = 2825, queue = 4634, heur = -6.0, depth = 6
iter = 2826, queue = 4634, heur = -6.0, depth = 6
iter = 2827, queue = 4635, heur = -6.0, depth = 6
iter = 2828, queue = 4637, heur = -6.0, depth = 6
iter = 2829, queue = 4638, heur = -6.0, depth = 6
iter = 2830, queue = 4639, heur = -6.0, depth = 6
iter = 2831, queue = 4640, heur = -6.0, depth = 6
iter = 2832, queue = 4639, heur = -6.0, depth = 6
iter = 2833, queue = 4640, heur = -6.0, depth = 6
iter = 2834, queue = 4641, heur = -6.0, depth = 6
```

```
iter = 2835, queue = 4640, heur = -6.0, depth = 6
iter = 2836, queue = 4639, heur = -6.0, depth = 6
iter = 2837, queue = 4640, heur = -6.0, depth = 6
iter = 2838, queue = 4641, heur = -6.0, depth = 6
iter = 2839, queue = 4640, heur = -6.0, depth = 6
iter = 2840, queue = 4641, heur = -6.0, depth = 6
iter = 2841, queue = 4642, heur = -6.0, depth = 6
iter = 2842, queue = 4645, heur = -6.0, depth = 6
iter = 2843, queue = 4647, heur = -6.0, depth = 6
iter = 2844, queue = 4649, heur = -6.0, depth = 6
iter = 2845, queue = 4652, heur = -6.0, depth = 6
iter = 2846, queue = 4654, heur = -6.0, depth = 6
iter = 2847, queue = 4657, heur = -6.0, depth = 6
iter = 2848, queue = 4658, heur = -6.0, depth = 6
iter = 2849, queue = 4659, heur = -6.0, depth = 6
iter = 2850, queue = 4660, heur = -6.0, depth = 6
iter = 2851, queue = 4663, heur = -6.0, depth = 6
iter = 2852, queue = 4662, heur = -6.0, depth = 6
iter = 2853, queue = 4663, heur = -6.0, depth = 6
iter = 2854, queue = 4666, heur = -6.0, depth = 6
iter = 2855, queue = 4669, heur = -6.0, depth = 6
iter = 2856, queue = 4670, heur = -6.0, depth = 6
iter = 2857, queue = 4673, heur = -6.0, depth = 6
iter = 2858, queue = 4676, heur = -6.0, depth = 6
iter = 2859, queue = 4678, heur = -6.0, depth = 6
iter = 2860, queue = 4678, heur = -6.0, depth = 6
iter = 2861, queue = 4679, heur = -6.0, depth = 6
iter = 2862, queue = 4682, heur = -6.0, depth = 6
iter = 2863, queue = 4684, heur = -6.0, depth = 6
iter = 2864, queue = 4685, heur = -6.0, depth = 6
iter = 2865, queue = 4686, heur = -6.0, depth = 6
iter = 2866, queue = 4687, heur = -6.0, depth = 6
iter = 2867, queue = 4690, heur = -6.0, depth = 6
iter = 2868, queue = 4693, heur = -6.0, depth = 6
iter = 2869, queue = 4694, heur = -6.0, depth = 6
iter = 2870, queue = 4696, heur = -6.0, depth = 6
iter = 2871, queue = 4697, heur = -6.0, depth = 6
iter = 2872, queue = 4698, heur = -6.0, depth = 6
iter = 2873, queue = 4701, heur = -6.0, depth = 6
iter = 2874, queue = 4702, heur = -6.0, depth = 6
iter = 2875, queue = 4705, heur = -6.0, depth = 6
iter = 2876, queue = 4706, heur = -6.0, depth = 6
iter = 2877, queue = 4706, heur = -6.0, depth = 6
iter = 2878, queue = 4707, heur = -6.0, depth = 6
iter = 2879, queue = 4708, heur = -6.0, depth = 6
iter = 2880, queue = 4709, heur = -6.0, depth = 6
iter = 2881, queue = 4711, heur = -6.0, depth = 6
iter = 2882, queue = 4711, heur = -6.0, depth = 6
iter = 2883, queue = 4711, heur = -6.0, depth = 6
iter = 2884, queue = 4712, heur = -6.0, depth = 7
iter = 2885, queue = 4712, heur = -6.0, depth = 6
iter = 2886, queue = 4714, heur = -6.0, depth = 6
iter = 2887, queue = 4715, heur = -6.0, depth = 6
iter = 2888, queue = 4715, heur = -6.0, depth = 6
iter = 2889, queue = 4716, heur = -6.0, depth = 6
iter = 2890, queue = 4717, heur = -6.0, depth = 6
iter = 2891, queue = 4719, heur = -6.0, depth = 6
iter = 2892, queue = 4719, heur = -6.0, depth = 6
iter = 2893, queue = 4721, heur = -6.0, depth = 6
```

```
iter = 2894, queue = 4723, heur = -6.0, depth = 6
iter = 2895, queue = 4726, heur = -6.0, depth = 6
iter = 2896, queue = 4728, heur = -6.0, depth = 6
iter = 2897, queue = 4729, heur = -6.0, depth = 6
iter = 2898, queue = 4730, heur = -6.0, depth = 6
iter = 2899, queue = 4730, heur = -6.0, depth = 6
iter = 2900, queue = 4729, heur = -6.0, depth = 6
iter = 2901, queue = 4729, heur = -6.0, depth = 6
iter = 2902, queue = 4728, heur = -6.0, depth = 6
iter = 2903, queue = 4731, heur = -6.0, depth = 6
iter = 2904, queue = 4730, heur = -6.0, depth = 6
iter = 2905, queue = 4731, heur = -6.0, depth = 6
iter = 2906, queue = 4730, heur = -6.0, depth = 6
iter = 2907, queue = 4731, heur = -6.0, depth = 6
iter = 2908, queue = 4732, heur = -6.0, depth = 6
iter = 2909, queue = 4733, heur = -6.0, depth = 6
iter = 2910, queue = 4734, heur = -6.0, depth = 6
iter = 2911, queue = 4735, heur = -6.0, depth = 6
iter = 2912, queue = 4737, heur = -6.0, depth = 6
iter = 2913, queue = 4740, heur = -6.0, depth = 6
iter = 2914, queue = 4740, heur = -6.0, depth = 6
iter = 2915, queue = 4740, heur = -6.0, depth = 6
iter = 2916, queue = 4741, heur = -6.0, depth = 6
iter = 2917, queue = 4742, heur = -6.0, depth = 6
iter = 2918, queue = 4742, heur = -6.0, depth = 6
iter = 2919, queue = 4742, heur = -6.0, depth = 6
iter = 2920, queue = 4744, heur = -6.0, depth = 6
iter = 2921, queue = 4745, heur = -6.0, depth = 6
iter = 2922, queue = 4748, heur = -6.0, depth = 6
iter = 2923, queue = 4749, heur = -6.0, depth = 6
iter = 2924, queue = 4751, heur = -6.0, depth = 6
iter = 2925, queue = 4754, heur = -6.0, depth = 6
iter = 2926, queue = 4755, heur = -6.0, depth = 6
iter = 2927, queue = 4756, heur = -6.0, depth = 6
iter = 2928, queue = 4757, heur = -6.0, depth = 6
iter = 2929, queue = 4758, heur = -6.0, depth = 6
iter = 2930, queue = 4760, heur = -6.0, depth = 6
iter = 2931, queue = 4763, heur = -6.0, depth = 6
iter = 2932, queue = 4765, heur = -6.0, depth = 6
iter = 2933, queue = 4766, heur = -6.0, depth = 6
iter = 2934, queue = 4766, heur = -6.0, depth = 6
iter = 2935, queue = 4766, heur = -6.0, depth = 6
iter = 2936, queue = 4767, heur = -6.0, depth = 6
iter = 2937, queue = 4769, heur = -6.0, depth = 6
iter = 2938, queue = 4770, heur = -6.0, depth = 6
iter = 2939, queue = 4771, heur = -6.0, depth = 6
iter = 2940, queue = 4772, heur = -6.0, depth = 6
iter = 2941, queue = 4774, heur = -6.0, depth = 6
iter = 2942, queue = 4775, heur = -6.0, depth = 6
iter = 2943, queue = 4778, heur = -6.0, depth = 6
iter = 2944, queue = 4779, heur = -6.0, depth = 6
iter = 2945, queue = 4782, heur = -6.0, depth = 6
iter = 2946, queue = 4784, heur = -6.0, depth = 6
iter = 2947, queue = 4787, heur = -6.0, depth = 6
iter = 2948, queue = 4788, heur = -6.0, depth = 6
iter = 2949, queue = 4789, heur = -6.0, depth = 6
iter = 2950, queue = 4788, heur = -6.0, depth = 6
iter = 2951, queue = 4789, heur = -6.0, depth = 6
iter = 2952, queue = 4788, heur = -6.0, depth = 6
```

```
iter = 2953, queue = 4789, heur = -6.0, depth = 6
iter = 2954, queue = 4790, heur = -6.0, depth = 6
iter = 2955, queue = 4789, heur = -6.0, depth = 6
iter = 2956, queue = 4788, heur = -6.0, depth = 6
iter = 2957, queue = 4789, heur = -6.0, depth = 6
iter = 2958, queue = 4788, heur = -6.0, depth = 6
iter = 2959, queue = 4789, heur = -6.0, depth = 6
iter = 2960, queue = 4790, heur = -6.0, depth = 6
iter = 2961, queue = 4790, heur = -6.0, depth = 6
iter = 2962, queue = 4791, heur = -6.0, depth = 6
iter = 2963, queue = 4791, heur = -6.0, depth = 6
iter = 2964, queue = 4790, heur = -6.0, depth = 6
iter = 2965, queue = 4791, heur = -6.0, depth = 6
iter = 2966, queue = 4792, heur = -6.0, depth = 6
iter = 2967, queue = 4792, heur = -6.0, depth = 6
iter = 2968, queue = 4795, heur = -6.0, depth = 6
iter = 2969, queue = 4796, heur = -6.0, depth = 6
iter = 2970, queue = 4797, heur = -6.0, depth = 6
iter = 2971, queue = 4796, heur = -6.0, depth = 6
iter = 2972, queue = 4798, heur = -6.0, depth = 6
iter = 2973, queue = 4798, heur = -6.0, depth = 6
iter = 2974, queue = 4801, heur = -6.0, depth = 6
iter = 2975, queue = 4800, heur = -6.0, depth = 6
iter = 2976, queue = 4801, heur = -6.0, depth = 6
iter = 2977, queue = 4802, heur = -6.0, depth = 6
iter = 2978, queue = 4803, heur = -6.0, depth = 6
iter = 2979, queue = 4803, heur = -6.0, depth = 6
iter = 2980, queue = 4803, heur = -6.0, depth = 6
iter = 2981, queue = 4806, heur = -6.0, depth = 6
iter = 2982, queue = 4807, heur = -6.0, depth = 6
iter = 2983, queue = 4808, heur = -6.0, depth = 6
iter = 2984, queue = 4811, heur = -6.0, depth = 6
iter = 2985, queue = 4814, heur = -6.0, depth = 6
iter = 2986, queue = 4817, heur = -6.0, depth = 6
iter = 2987, queue = 4819, heur = -6.0, depth = 6
iter = 2988, queue = 4820, heur = -6.0, depth = 6
iter = 2989, queue = 4821, heur = -6.0, depth = 6
iter = 2990, queue = 4822, heur = -6.0, depth = 6
iter = 2991, queue = 4823, heur = -6.0, depth = 6
iter = 2992, queue = 4823, heur = -6.0, depth = 6
iter = 2993, queue = 4824, heur = -6.0, depth = 6
iter = 2994, queue = 4827, heur = -6.0, depth = 6
iter = 2995, queue = 4828, heur = -6.0, depth = 6
iter = 2996, queue = 4829, heur = -6.0, depth = 6
iter = 2997, queue = 4832, heur = -6.0, depth = 6
iter = 2998, queue = 4833, heur = -6.0, depth = 6
iter = 2999, queue = 4836, heur = -6.0, depth = 6
iter = 3000, queue = 4838, heur = -6.0, depth = 6
iter = 3001, queue = 4839, heur = -6.0, depth = 7
iter = 3002, queue = 4840, heur = -6.0, depth = 6
iter = 3003, queue = 4843, heur = -6.0, depth = 6
iter = 3004, queue = 4846, heur = -6.0, depth = 6
iter = 3005, queue = 4846, heur = -6.0, depth = 6
iter = 3006, queue = 4847, heur = -6.0, depth = 6
iter = 3007, queue = 4846, heur = -6.0, depth = 6
iter = 3008, queue = 4847, heur = -6.0, depth = 8
iter = 3009, queue = 4848, heur = -6.0, depth = 6
iter = 3010, queue = 4849, heur = -6.0, depth = 6
iter = 3011, queue = 4851, heur = -6.0, depth = 6
```

```
iter = 3012, queue = 4853, heur = -6.0, depth = 7
iter = 3013, queue = 4855, heur = -6.0, depth = 7
iter = 3014, queue = 4856, heur = -6.0, depth = 6
iter = 3015, queue = 4857, heur = -6.0, depth = 9
iter = 3016, queue = 4858, heur = -6.0, depth = 6
iter = 3017, queue = 4859, heur = -6.0, depth = 6
iter = 3018, queue = 4862, heur = -6.0, depth = 6
iter = 3019, queue = 4863, heur = -6.0, depth = 6
iter = 3020, queue = 4865, heur = -6.0, depth = 6
iter = 3021, queue = 4867, heur = -6.0, depth = 6
iter = 3022, queue = 4868, heur = -6.0, depth = 6
iter = 3023, queue = 4870, heur = -6.0, depth = 6
iter = 3024, queue = 4872, heur = -6.0, depth = 6
iter = 3025, queue = 4873, heur = -6.0, depth = 6
iter = 3026, queue = 4873, heur = -6.0, depth = 6
iter = 3027, queue = 4874, heur = -6.0, depth = 6
iter = 3028, queue = 4873, heur = -6.0, depth = 6
iter = 3029, queue = 4873, heur = -6.0, depth = 6
iter = 3030, queue = 4874, heur = -6.0, depth = 6
iter = 3031, queue = 4875, heur = -6.0, depth = 6
iter = 3032, queue = 4878, heur = -6.0, depth = 6
iter = 3033, queue = 4879, heur = -6.0, depth = 6
iter = 3034, queue = 4880, heur = -6.0, depth = 6
iter = 3035, queue = 4880, heur = -6.0, depth = 6
iter = 3036, queue = 4882, heur = -6.0, depth = 6
iter = 3037, queue = 4883, heur = -6.0, depth = 6
iter = 3038, queue = 4884, heur = -6.0, depth = 6
iter = 3039, queue = 4885, heur = -6.0, depth = 6
iter = 3040, queue = 4886, heur = -6.0, depth = 6
iter = 3041, queue = 4889, heur = -6.0, depth = 6
iter = 3042, queue = 4890, heur = -6.0, depth = 6
iter = 3043, queue = 4892, heur = -6.0, depth = 6
iter = 3044, queue = 4892, heur = -6.0, depth = 6
iter = 3045, queue = 4893, heur = -6.0, depth = 6
iter = 3046, queue = 4894, heur = -6.0, depth = 6
iter = 3047, queue = 4896, heur = -6.0, depth = 6
iter = 3048, queue = 4899, heur = -6.0, depth = 6
iter = 3049, queue = 4901, heur = -6.0, depth = 6
iter = 3050, queue = 4903, heur = -6.0, depth = 6
iter = 3051, queue = 4906, heur = -6.0, depth = 6
iter = 3052, queue = 4907, heur = -6.0, depth = 6
iter = 3053, queue = 4909, heur = -6.0, depth = 6
iter = 3054, queue = 4910, heur = -6.0, depth = 6
iter = 3055, queue = 4911, heur = -6.0, depth = 6
iter = 3056, queue = 4914, heur = -6.0, depth = 6
iter = 3057, queue = 4915, heur = -6.0, depth = 6
iter = 3058, queue = 4916, heur = -6.0, depth = 6
iter = 3059, queue = 4915, heur = -6.0, depth = 6
iter = 3060, queue = 4916, heur = -6.0, depth = 6
iter = 3061, queue = 4919, heur = -6.0, depth = 6
iter = 3062, queue = 4920, heur = -6.0, depth = 6
iter = 3063, queue = 4922, heur = -6.0, depth = 6
iter = 3064, queue = 4923, heur = -6.0, depth = 6
iter = 3065, queue = 4926, heur = -6.0, depth = 6
iter = 3066, queue = 4927, heur = -6.0, depth = 6
iter = 3067, queue = 4929, heur = -6.0, depth = 6
iter = 3068, queue = 4931, heur = -6.0, depth = 6
iter = 3069, queue = 4931, heur = -6.0, depth = 6
iter = 3070, queue = 4932, heur = -6.0, depth = 6
```

```
iter = 3071, queue = 4935, heur = -6.0, depth = 6
iter = 3072, queue = 4936, heur = -6.0, depth = 6
iter = 3073, queue = 4937, heur = -6.0, depth = 6
iter = 3074, queue = 4938, heur = -6.0, depth = 6
iter = 3075, queue = 4941, heur = -6.0, depth = 6
iter = 3076, queue = 4942, heur = -6.0, depth = 6
iter = 3077, queue = 4944, heur = -6.0, depth = 6
iter = 3078, queue = 4945, heur = -6.0, depth = 6
iter = 3079, queue = 4944, heur = -6.0, depth = 6
iter = 3080, queue = 4945, heur = -6.0, depth = 6
iter = 3081, queue = 4945, heur = -6.0, depth = 6
iter = 3082, queue = 4945, heur = -6.0, depth = 6
iter = 3083, queue = 4946, heur = -6.0, depth = 6
iter = 3084, queue = 4947, heur = -6.0, depth = 6
iter = 3085, queue = 4948, heur = -6.0, depth = 6
iter = 3086, queue = 4949, heur = -6.0, depth = 6
iter = 3087, queue = 4950, heur = -6.0, depth = 6
iter = 3088, queue = 4949, heur = -6.0, depth = 6
iter = 3089, queue = 4950, heur = -6.0, depth = 6
iter = 3090, queue = 4951, heur = -6.0, depth = 6
iter = 3091, queue = 4952, heur = -6.0, depth = 6
iter = 3092, queue = 4951, heur = -6.0, depth = 6
iter = 3093, queue = 4952, heur = -6.0, depth = 7
iter = 3094, queue = 4953, heur = -6.0, depth = 6
iter = 3095, queue = 4954, heur = -6.0, depth = 6
iter = 3096, queue = 4957, heur = -6.0, depth = 6
iter = 3097, queue = 4960, heur = -6.0, depth = 6
iter = 3098, queue = 4961, heur = -6.0, depth = 8
iter = 3099, queue = 4962, heur = -6.0, depth = 6
iter = 3100, queue = 4962, heur = -6.0, depth = 6
iter = 3101, queue = 4963, heur = -6.0, depth = 6
iter = 3102, queue = 4962, heur = -6.0, depth = 6
iter = 3103, queue = 4963, heur = -6.0, depth = 6
iter = 3104, queue = 4964, heur = -6.0, depth = 7
iter = 3105, queue = 4965, heur = -6.0, depth = 6
iter = 3106, queue = 4965, heur = -6.0, depth = 6
iter = 3107, queue = 4968, heur = -6.0, depth = 6
iter = 3108, queue = 4969, heur = -6.0, depth = 6
iter = 3109, queue = 4969, heur = -6.0, depth = 6
iter = 3110, queue = 4969, heur = -6.0, depth = 6
iter = 3111, queue = 4969, heur = -6.0, depth = 7
iter = 3112, queue = 4970, heur = -6.0, depth = 6
iter = 3113, queue = 4971, heur = -6.0, depth = 6
iter = 3114, queue = 4971, heur = -6.0, depth = 6
iter = 3115, queue = 4972, heur = -6.0, depth = 8
iter = 3116, queue = 4973, heur = -6.0, depth = 6
iter = 3117, queue = 4974, heur = -6.0, depth = 7
iter = 3118, queue = 4975, heur = -6.0, depth = 6
iter = 3119, queue = 4977, heur = -6.0, depth = 9
iter = 3120, queue = 4978, heur = -6.0, depth = 6
iter = 3121, queue = 4981, heur = -6.0, depth = 8
iter = 3122, queue = 4982, heur = -6.0, depth = 6
iter = 3123, queue = 4985, heur = -6.0, depth = 6
iter = 3124, queue = 4988, heur = -6.0, depth = 6
iter = 3125, queue = 4989, heur = -6.0, depth = 6
iter = 3126, queue = 4990, heur = -6.0, depth = 6
iter = 3127, queue = 4991, heur = -6.0, depth = 6
iter = 3128, queue = 4993, heur = -6.0, depth = 6
iter = 3129, queue = 4994, heur = -6.0, depth = 6
```

```
iter = 3130, queue = 4995, heur = -6.0, depth = 6
iter = 3131, queue = 4996, heur = -6.0, depth = 6
iter = 3132, queue = 4998, heur = -6.0, depth = 6
iter = 3133, queue = 4999, heur = -6.0, depth = 6
iter = 3134, queue = 5002, heur = -6.0, depth = 6
iter = 3135, queue = 5003, heur = -6.0, depth = 6
iter = 3136, queue = 5003, heur = -6.0, depth = 6
iter = 3137, queue = 5003, heur = -6.0, depth = 6
iter = 3138, queue = 5004, heur = -6.0, depth = 6
iter = 3139, queue = 5005, heur = -6.0, depth = 6
iter = 3140, queue = 5007, heur = -6.0, depth = 6
iter = 3141, queue = 5007, heur = -6.0, depth = 6
iter = 3142, queue = 5010, heur = -6.0, depth = 6
iter = 3143, queue = 5011, heur = -6.0, depth = 6
iter = 3144, queue = 5012, heur = -6.0, depth = 6
iter = 3145, queue = 5015, heur = -6.0, depth = 6
iter = 3146, queue = 5016, heur = -6.0, depth = 6
iter = 3147, queue = 5018, heur = -6.0, depth = 6
iter = 3148, queue = 5017, heur = -6.0, depth = 7
iter = 3149, queue = 5018, heur = -6.0, depth = 6
iter = 3150, queue = 5021, heur = -6.0, depth = 6
iter = 3151, queue = 5022, heur = -6.0, depth = 6
iter = 3152, queue = 5024, heur = -6.0, depth = 8
iter = 3153, queue = 5025, heur = -6.0, depth = 6
iter = 3154, queue = 5027, heur = -6.0, depth = 6
iter = 3155, queue = 5030, heur = -6.0, depth = 6
iter = 3156, queue = 5030, heur = -6.0, depth = 6
iter = 3157, queue = 5032, heur = -6.0, depth = 6
iter = 3158, queue = 5035, heur = -6.0, depth = 6
iter = 3159, queue = 5034, heur = -6.0, depth = 6
iter = 3160, queue = 5036, heur = -6.0, depth = 6
iter = 3161, queue = 5037, heur = -6.0, depth = 6
iter = 3162, queue = 5038, heur = -6.0, depth = 6
iter = 3163, queue = 5040, heur = -6.0, depth = 6
iter = 3164, queue = 5041, heur = -6.0, depth = 6
iter = 3165, queue = 5040, heur = -6.0, depth = 10
iter = 3166, queue = 5043, heur = -6.0, depth = 6
iter = 3167, queue = 5046, heur = -6.0, depth = 6
iter = 3168, queue = 5049, heur = -6.0, depth = 6
iter = 3169, queue = 5052, heur = -6.0, depth = 11
iter = 3170, queue = 5055, heur = -6.0, depth = 6
iter = 3171, queue = 5056, heur = -6.0, depth = 6
iter = 3172, queue = 5058, heur = -6.0, depth = 6
iter = 3173, queue = 5061, heur = -6.0, depth = 12
iter = 3174, queue = 5064, heur = -6.0, depth = 6
iter = 3175, queue = 5064, heur = -6.0, depth = 6
iter = 3176, queue = 5065, heur = -6.0, depth = 6
iter = 3177, queue = 5067, heur = -6.0, depth = 6
iter = 3178, queue = 5067, heur = -6.0, depth = 6
iter = 3179, queue = 5068, heur = -6.0, depth = 6
iter = 3180, queue = 5069, heur = -6.0, depth = 6
iter = 3181, queue = 5072, heur = -6.0, depth = 6
iter = 3182, queue = 5071, heur = -6.0, depth = 6
iter = 3183, queue = 5072, heur = -6.0, depth = 6
iter = 3184, queue = 5075, heur = -6.0, depth = 6
iter = 3185, queue = 5076, heur = -6.0, depth = 6
iter = 3186, queue = 5077, heur = -6.0, depth = 6
iter = 3187, queue = 5080, heur = -6.0, depth = 6
iter = 3188, queue = 5081, heur = -6.0, depth = 6
```

```
iter = 3189, queue = 5082, heur = -6.0, depth = 6
iter = 3190, queue = 5083, heur = -6.0, depth = 6
iter = 3191, queue = 5084, heur = -6.0, depth = 6
iter = 3192, queue = 5086, heur = -6.0, depth = 6
iter = 3193, queue = 5088, heur = -6.0, depth = 6
iter = 3194, queue = 5088, heur = -6.0, depth = 6
iter = 3195, queue = 5089, heur = -6.0, depth = 6
iter = 3196, queue = 5092, heur = -6.0, depth = 6
iter = 3197, queue = 5093, heur = -6.0, depth = 6
iter = 3198, queue = 5094, heur = -6.0, depth = 6
iter = 3199, queue = 5095, heur = -6.0, depth = 6
iter = 3200, queue = 5097, heur = -6.0, depth = 6
iter = 3201, queue = 5099, heur = -6.0, depth = 6
iter = 3202, queue = 5101, heur = -6.0, depth = 6
iter = 3203, queue = 5103, heur = -6.0, depth = 6
iter = 3204, queue = 5104, heur = -6.0, depth = 6
iter = 3205, queue = 5106, heur = -6.0, depth = 6
iter = 3206, queue = 5109, heur = -6.0, depth = 6
iter = 3207, queue = 5110, heur = -6.0, depth = 6
iter = 3208, queue = 5113, heur = -6.0, depth = 6
iter = 3209, queue = 5116, heur = -6.0, depth = 6
iter = 3210, queue = 5116, heur = -6.0, depth = 6
iter = 3211, queue = 5117, heur = -6.0, depth = 6
iter = 3212, queue = 5119, heur = -6.0, depth = 6
iter = 3213, queue = 5122, heur = -6.0, depth = 6
iter = 3214, queue = 5123, heur = -6.0, depth = 6
iter = 3215, queue = 5124, heur = -6.0, depth = 6
iter = 3216, queue = 5125, heur = -6.0, depth = 6
iter = 3217, queue = 5127, heur = -6.0, depth = 6
iter = 3218, queue = 5126, heur = -6.0, depth = 6
iter = 3219, queue = 5126, heur = -6.0, depth = 6
iter = 3220, queue = 5129, heur = -6.0, depth = 6
iter = 3221, queue = 5129, heur = -6.0, depth = 6
iter = 3222, queue = 5129, heur = -6.0, depth = 6
iter = 3223, queue = 5130, heur = -6.0, depth = 6
iter = 3224, queue = 5131, heur = -6.0, depth = 6
iter = 3225, queue = 5133, heur = -6.0, depth = 6
iter = 3226, queue = 5134, heur = -6.0, depth = 6
iter = 3227, queue = 5134, heur = -6.0, depth = 6
iter = 3228, queue = 5136, heur = -6.0, depth = 8
iter = 3229, queue = 5136, heur = -6.0, depth = 6
iter = 3230, queue = 5137, heur = -6.0, depth = 6
iter = 3231, queue = 5138, heur = -6.0, depth = 6
iter = 3232, queue = 5137, heur = -6.0, depth = 6
iter = 3233, queue = 5139, heur = -6.0, depth = 6
iter = 3234, queue = 5142, heur = -6.0, depth = 6
iter = 3235, queue = 5143, heur = -6.0, depth = 6
iter = 3236, queue = 5143, heur = -6.0, depth = 6
iter = 3237, queue = 5144, heur = -6.0, depth = 6
iter = 3238, queue = 5146, heur = -6.0, depth = 6
iter = 3239, queue = 5149, heur = -6.0, depth = 6
iter = 3240, queue = 5148, heur = -6.0, depth = 6
iter = 3241, queue = 5149, heur = -6.0, depth = 6
iter = 3242, queue = 5150, heur = -6.0, depth = 6
iter = 3243, queue = 5151, heur = -6.0, depth = 6
iter = 3244, queue = 5152, heur = -6.0, depth = 6
iter = 3245, queue = 5155, heur = -6.0, depth = 6
iter = 3246, queue = 5158, heur = -6.0, depth = 6
iter = 3247, queue = 5160, heur = -6.0, depth = 6
```

```
iter = 3248, queue = 5161, heur = -6.0, depth = 6
iter = 3249, queue = 5162, heur = -6.0, depth = 6
iter = 3250, queue = 5162, heur = -6.0, depth = 6
iter = 3251, queue = 5163, heur = -6.0, depth = 6
iter = 3252, queue = 5164, heur = -6.0, depth = 6
iter = 3253, queue = 5165, heur = -6.0, depth = 6
iter = 3254, queue = 5167, heur = -6.0, depth = 6
iter = 3255, queue = 5168, heur = -6.0, depth = 6
iter = 3256, queue = 5170, heur = -6.0, depth = 6
iter = 3257, queue = 5169, heur = -6.0, depth = 6
iter = 3258, queue = 5170, heur = -6.0, depth = 6
iter = 3259, queue = 5172, heur = -6.0, depth = 6
iter = 3260, queue = 5173, heur = -6.0, depth = 6
iter = 3261, queue = 5174, heur = -6.0, depth = 6
iter = 3262, queue = 5174, heur = -6.0, depth = 6
iter = 3263, queue = 5177, heur = -6.0, depth = 6
iter = 3264, queue = 5176, heur = -6.0, depth = 6
iter = 3265, queue = 5177, heur = -6.0, depth = 6
iter = 3266, queue = 5178, heur = -6.0, depth = 7
iter = 3267, queue = 5178, heur = -6.0, depth = 6
iter = 3268, queue = 5179, heur = -6.0, depth = 6
iter = 3269, queue = 5180, heur = -6.0, depth = 6
iter = 3270, queue = 5181, heur = -6.0, depth = 7
iter = 3271, queue = 5182, heur = -6.0, depth = 6
iter = 3272, queue = 5184, heur = -6.0, depth = 6
iter = 3273, queue = 5186, heur = -6.0, depth = 8
iter = 3274, queue = 5187, heur = -6.0, depth = 6
iter = 3275, queue = 5188, heur = -6.0, depth = 6
iter = 3276, queue = 5191, heur = -6.0, depth = 6
iter = 3277, queue = 5192, heur = -6.0, depth = 6
iter = 3278, queue = 5193, heur = -6.0, depth = 6
iter = 3279, queue = 5193, heur = -6.0, depth = 6
iter = 3280, queue = 5194, heur = -6.0, depth = 6
iter = 3281, queue = 5195, heur = -6.0, depth = 6
iter = 3282, queue = 5196, heur = -6.0, depth = 6
iter = 3283, queue = 5198, heur = -6.0, depth = 6
iter = 3284, queue = 5199, heur = -6.0, depth = 6
iter = 3285, queue = 5201, heur = -6.0, depth = 7
iter = 3286, queue = 5202, heur = -6.0, depth = 6
iter = 3287, queue = 5203, heur = -6.0, depth = 6
iter = 3288, queue = 5204, heur = -6.0, depth = 6
iter = 3289, queue = 5205, heur = -6.0, depth = 6
iter = 3290, queue = 5206, heur = -6.0, depth = 6
iter = 3291, queue = 5209, heur = -6.0, depth = 6
iter = 3292, queue = 5211, heur = -6.0, depth = 6
iter = 3293, queue = 5214, heur = -6.0, depth = 6
iter = 3294, queue = 5215, heur = -6.0, depth = 6
iter = 3295, queue = 5218, heur = -6.0, depth = 6
iter = 3296, queue = 5221, heur = -6.0, depth = 6
iter = 3297, queue = 5222, heur = -6.0, depth = 6
iter = 3298, queue = 5223, heur = -6.0, depth = 6
iter = 3299, queue = 5224, heur = -6.0, depth = 6
iter = 3300, queue = 5225, heur = -6.0, depth = 6
iter = 3301, queue = 5225, heur = -6.0, depth = 6
iter = 3302, queue = 5226, heur = -6.0, depth = 6
iter = 3303, queue = 5227, heur = -6.0, depth = 6
iter = 3304, queue = 5228, heur = -6.0, depth = 6
iter = 3305, queue = 5229, heur = -6.0, depth = 6
iter = 3306, queue = 5229, heur = -6.0, depth = 6
```

```
iter = 3307, queue = 5230, heur = -6.0, depth = 6
iter = 3308, queue = 5231, heur = -6.0, depth = 6
iter = 3309, queue = 5233, heur = -6.0, depth = 6
iter = 3310, queue = 5236, heur = -6.0, depth = 6
iter = 3311, queue = 5237, heur = -6.0, depth = 6
iter = 3312, queue = 5239, heur = -6.0, depth = 6
iter = 3313, queue = 5240, heur = -6.0, depth = 6
iter = 3314, queue = 5241, heur = -6.0, depth = 6
iter = 3315, queue = 5243, heur = -6.0, depth = 6
iter = 3316, queue = 5245, heur = -6.0, depth = 6
iter = 3317, queue = 5245, heur = -6.0, depth = 6
iter = 3318, queue = 5246, heur = -6.0, depth = 6
iter = 3319, queue = 5247, heur = -6.0, depth = 6
iter = 3320, queue = 5250, heur = -6.0, depth = 6
iter = 3321, queue = 5250, heur = -6.0, depth = 6
iter = 3322, queue = 5251, heur = -6.0, depth = 6
iter = 3323, queue = 5254, heur = -6.0, depth = 6
iter = 3324, queue = 5255, heur = -6.0, depth = 6
iter = 3325, queue = 5258, heur = -6.0, depth = 6
iter = 3326, queue = 5259, heur = -6.0, depth = 6
iter = 3327, queue = 5260, heur = -6.0, depth = 6
iter = 3328, queue = 5260, heur = -6.0, depth = 6
iter = 3329, queue = 5261, heur = -6.0, depth = 6
iter = 3330, queue = 5262, heur = -6.0, depth = 6
iter = 3331, queue = 5265, heur = -6.0, depth = 6
iter = 3332, queue = 5266, heur = -6.0, depth = 6
iter = 3333, queue = 5268, heur = -6.0, depth = 6
iter = 3334, queue = 5269, heur = -6.0, depth = 6
iter = 3335, queue = 5270, heur = -6.0, depth = 6
iter = 3336, queue = 5273, heur = -6.0, depth = 6
iter = 3337, queue = 5274, heur = -6.0, depth = 6
iter = 3338, queue = 5275, heur = -6.0, depth = 6
iter = 3339, queue = 5274, heur = -6.0, depth = 6
iter = 3340, queue = 5275, heur = -6.0, depth = 6
iter = 3341, queue = 5275, heur = -6.0, depth = 6
iter = 3342, queue = 5277, heur = -6.0, depth = 6
iter = 3343, queue = 5276, heur = -6.0, depth = 6
iter = 3344, queue = 5277, heur = -6.0, depth = 6
iter = 3345, queue = 5278, heur = -6.0, depth = 6
iter = 3346, queue = 5279, heur = -6.0, depth = 6
iter = 3347, queue = 5280, heur = -6.0, depth = 6
iter = 3348, queue = 5281, heur = -6.0, depth = 6
iter = 3349, queue = 5282, heur = -6.0, depth = 6
iter = 3350, queue = 5284, heur = -6.0, depth = 6
iter = 3351, queue = 5285, heur = -6.0, depth = 6
iter = 3352, queue = 5288, heur = -6.0, depth = 6
iter = 3353, queue = 5289, heur = -6.0, depth = 6
iter = 3354, queue = 5290, heur = -6.0, depth = 6
iter = 3355, queue = 5291, heur = -6.0, depth = 6
iter = 3356, queue = 5292, heur = -6.0, depth = 6
iter = 3357, queue = 5294, heur = -6.0, depth = 6
iter = 3358, queue = 5297, heur = -6.0, depth = 6
iter = 3359, queue = 5300, heur = -6.0, depth = 6
iter = 3360, queue = 5303, heur = -6.0, depth = 6
iter = 3361, queue = 5306, heur = -6.0, depth = 6
iter = 3362, queue = 5307, heur = -6.0, depth = 6
iter = 3363, queue = 5307, heur = -6.0, depth = 6
iter = 3364, queue = 5308, heur = -6.0, depth = 6
iter = 3365, queue = 5309, heur = -6.0, depth = 6
```

```
iter = 3366, queue = 5311, heur = -6.0, depth = 6
iter = 3367, queue = 5311, heur = -6.0, depth = 6
iter = 3368, queue = 5312, heur = -6.0, depth = 6
iter = 3369, queue = 5313, heur = -6.0, depth = 6
iter = 3370, queue = 5314, heur = -6.0, depth = 6
iter = 3371, queue = 5316, heur = -6.0, depth = 6
iter = 3372, queue = 5317, heur = -6.0, depth = 6
iter = 3373, queue = 5316, heur = -6.0, depth = 6
iter = 3374, queue = 5317, heur = -6.0, depth = 6
iter = 3375, queue = 5317, heur = -6.0, depth = 6
iter = 3376, queue = 5318, heur = -6.0, depth = 6
iter = 3377, queue = 5320, heur = -6.0, depth = 6
iter = 3378, queue = 5321, heur = -6.0, depth = 6
iter = 3379, queue = 5322, heur = -6.0, depth = 6
iter = 3380, queue = 5323, heur = -6.0, depth = 6
iter = 3381, queue = 5324, heur = -6.0, depth = 6
iter = 3382, queue = 5324, heur = -6.0, depth = 6
iter = 3383, queue = 5325, heur = -6.0, depth = 6
iter = 3384, queue = 5328, heur = -6.0, depth = 6
iter = 3385, queue = 5330, heur = -6.0, depth = 6
iter = 3386, queue = 5331, heur = -6.0, depth = 6
iter = 3387, queue = 5332, heur = -6.0, depth = 6
iter = 3388, queue = 5333, heur = -6.0, depth = 7
iter = 3389, queue = 5334, heur = -6.0, depth = 7
iter = 3390, queue = 5335, heur = -6.0, depth = 6
iter = 3391, queue = 5336, heur = -6.0, depth = 8
iter = 3392, queue = 5337, heur = -6.0, depth = 8
iter = 3393, queue = 5338, heur = -6.0, depth = 6
iter = 3394, queue = 5339, heur = -6.0, depth = 6
iter = 3395, queue = 5340, heur = -6.0, depth = 9
iter = 3396, queue = 5340, heur = -6.0, depth = 6
iter = 3397, queue = 5342, heur = -6.0, depth = 6
iter = 3398, queue = 5344, heur = -6.0, depth = 10
iter = 3399, queue = 5343, heur = -6.0, depth = 6
iter = 3400, queue = 5345, heur = -6.0, depth = 6
iter = 3401, queue = 5346, heur = -6.0, depth = 6
iter = 3402, queue = 5347, heur = -6.0, depth = 6
iter = 3403, queue = 5348, heur = -6.0, depth = 6
iter = 3404, queue = 5347, heur = -6.0, depth = 6
iter = 3405, queue = 5350, heur = -6.0, depth = 6
iter = 3406, queue = 5351, heur = -6.0, depth = 6
iter = 3407, queue = 5353, heur = -6.0, depth = 6
iter = 3408, queue = 5355, heur = -6.0, depth = 6
iter = 3409, queue = 5355, heur = -6.0, depth = 6
iter = 3410, queue = 5355, heur = -6.0, depth = 6
iter = 3411, queue = 5356, heur = -6.0, depth = 6
iter = 3412, queue = 5357, heur = -6.0, depth = 6
iter = 3413, queue = 5357, heur = -6.0, depth = 6
iter = 3414, queue = 5358, heur = -6.0, depth = 6
iter = 3415, queue = 5360, heur = -6.0, depth = 6
iter = 3416, queue = 5363, heur = -6.0, depth = 6
iter = 3417, queue = 5366, heur = -6.0, depth = 6
iter = 3418, queue = 5367, heur = -6.0, depth = 6
iter = 3419, queue = 5369, heur = -6.0, depth = 6
iter = 3420, queue = 5372, heur = -6.0, depth = 6
iter = 3421, queue = 5373, heur = -6.0, depth = 6
iter = 3422, queue = 5374, heur = -6.0, depth = 6
iter = 3423, queue = 5375, heur = -6.0, depth = 6
iter = 3424, queue = 5376, heur = -6.0, depth = 6
```

```
iter = 3425, queue = 5375, heur = -6.0, depth = 6
iter = 3426, queue = 5378, heur = -6.0, depth = 6
iter = 3427, queue = 5379, heur = -6.0, depth = 6
iter = 3428, queue = 5381, heur = -6.0, depth = 6
iter = 3429, queue = 5381, heur = -6.0, depth = 6
iter = 3430, queue = 5384, heur = -6.0, depth = 6
iter = 3431, queue = 5386, heur = -6.0, depth = 6
iter = 3432, queue = 5388, heur = -6.0, depth = 6
iter = 3433, queue = 5390, heur = -6.0, depth = 6
iter = 3434, queue = 5391, heur = -6.0, depth = 6
iter = 3435, queue = 5392, heur = -6.0, depth = 6
iter = 3436, queue = 5393, heur = -6.0, depth = 6
iter = 3437, queue = 5396, heur = -6.0, depth = 6
iter = 3438, queue = 5396, heur = -6.0, depth = 6
iter = 3439, queue = 5397, heur = -6.0, depth = 6
iter = 3440, queue = 5397, heur = -6.0, depth = 6
iter = 3441, queue = 5399, heur = -6.0, depth = 6
iter = 3442, queue = 5400, heur = -6.0, depth = 6
iter = 3443, queue = 5402, heur = -6.0, depth = 6
iter = 3444, queue = 5403, heur = -6.0, depth = 6
iter = 3445, queue = 5406, heur = -6.0, depth = 6
iter = 3446, queue = 5407, heur = -6.0, depth = 6
iter = 3447, queue = 5409, heur = -6.0, depth = 6
iter = 3448, queue = 5411, heur = -6.0, depth = 6
iter = 3449, queue = 5412, heur = -6.0, depth = 6
iter = 3450, queue = 5412, heur = -6.0, depth = 6
iter = 3451, queue = 5413, heur = -6.0, depth = 6
iter = 3452, queue = 5414, heur = -6.0, depth = 6
iter = 3453, queue = 5415, heur = -6.0, depth = 6
iter = 3454, queue = 5416, heur = -6.0, depth = 6
iter = 3455, queue = 5418, heur = -6.0, depth = 6
iter = 3456, queue = 5420, heur = -6.0, depth = 6
iter = 3457, queue = 5421, heur = -6.0, depth = 6
iter = 3458, queue = 5420, heur = -6.0, depth = 6
iter = 3459, queue = 5421, heur = -6.0, depth = 6
iter = 3460, queue = 5424, heur = -6.0, depth = 6
iter = 3461, queue = 5423, heur = -6.0, depth = 6
iter = 3462, queue = 5426, heur = -6.0, depth = 6
iter = 3463, queue = 5428, heur = -6.0, depth = 6
iter = 3464, queue = 5428, heur = -6.0, depth = 6
iter = 3465, queue = 5429, heur = -6.0, depth = 6
iter = 3466, queue = 5432, heur = -6.0, depth = 6
iter = 3467, queue = 5433, heur = -6.0, depth = 6
iter = 3468, queue = 5433, heur = -6.0, depth = 6
iter = 3469, queue = 5434, heur = -6.0, depth = 6
iter = 3470, queue = 5434, heur = -6.0, depth = 6
iter = 3471, queue = 5435, heur = -6.0, depth = 6
iter = 3472, queue = 5437, heur = -6.0, depth = 6
iter = 3473, queue = 5436, heur = -6.0, depth = 6
iter = 3474, queue = 5436, heur = -6.0, depth = 6
iter = 3475, queue = 5437, heur = -6.0, depth = 6
iter = 3476, queue = 5436, heur = -6.0, depth = 6
iter = 3477, queue = 5437, heur = -6.0, depth = 7
iter = 3478, queue = 5438, heur = -6.0, depth = 6
iter = 3479, queue = 5441, heur = -6.0, depth = 6
iter = 3480, queue = 5440, heur = -6.0, depth = 6
iter = 3481, queue = 5441, heur = -6.0, depth = 6
iter = 3482, queue = 5443, heur = -6.0, depth = 6
iter = 3483, queue = 5445, heur = -6.0, depth = 6
```

```
iter = 3484, queue = 5445, heur = -6.0, depth = 6
iter = 3485, queue = 5446, heur = -6.0, depth = 6
iter = 3486, queue = 5447, heur = -6.0, depth = 6
iter = 3487, queue = 5450, heur = -6.0, depth = 6
iter = 3488, queue = 5449, heur = -6.0, depth = 6
iter = 3489, queue = 5450, heur = -6.0, depth = 6
iter = 3490, queue = 5451, heur = -6.0, depth = 6
iter = 3491, queue = 5452, heur = -6.0, depth = 6
iter = 3492, queue = 5454, heur = -6.0, depth = 6
iter = 3493, queue = 5454, heur = -6.0, depth = 6
iter = 3494, queue = 5457, heur = -6.0, depth = 6
iter = 3495, queue = 5458, heur = -6.0, depth = 8
iter = 3496, queue = 5461, heur = -6.0, depth = 6
iter = 3497, queue = 5462, heur = -6.0, depth = 6
iter = 3498, queue = 5461, heur = -6.0, depth = 9
iter = 3499, queue = 5464, heur = -6.0, depth = 6
iter = 3500, queue = 5465, heur = -6.0, depth = 6
iter = 3501, queue = 5465, heur = -6.0, depth = 6
iter = 3502, queue = 5467, heur = -6.0, depth = 6
iter = 3503, queue = 5469, heur = -6.0, depth = 6
iter = 3504, queue = 5470, heur = -6.0, depth = 6
iter = 3505, queue = 5472, heur = -6.0, depth = 6
iter = 3506, queue = 5472, heur = -6.0, depth = 6
iter = 3507, queue = 5472, heur = -6.0, depth = 6
iter = 3508, queue = 5473, heur = -6.0, depth = 7
iter = 3509, queue = 5473, heur = -6.0, depth = 6
iter = 3510, queue = 5472, heur = -6.0, depth = 6
iter = 3511, queue = 5473, heur = -6.0, depth = 6
iter = 3512, queue = 5472, heur = -6.0, depth = 6
iter = 3513, queue = 5475, heur = -6.0, depth = 6
iter = 3514, queue = 5475, heur = -6.0, depth = 6
iter = 3515, queue = 5475, heur = -6.0, depth = 6
iter = 3516, queue = 5476, heur = -6.0, depth = 6
iter = 3517, queue = 5477, heur = -6.0, depth = 6
iter = 3518, queue = 5476, heur = -6.0, depth = 6
iter = 3519, queue = 5477, heur = -6.0, depth = 6
iter = 3520, queue = 5478, heur = -6.0, depth = 6
iter = 3521, queue = 5481, heur = -6.0, depth = 6
iter = 3522, queue = 5482, heur = -6.0, depth = 6
iter = 3523, queue = 5483, heur = -6.0, depth = 6
iter = 3524, queue = 5484, heur = -6.0, depth = 6
iter = 3525, queue = 5485, heur = -6.0, depth = 6
iter = 3526, queue = 5484, heur = -6.0, depth = 6
iter = 3527, queue = 5486, heur = -6.0, depth = 6
iter = 3528, queue = 5488, heur = -6.0, depth = 6
iter = 3529, queue = 5489, heur = -6.0, depth = 6
iter = 3530, queue = 5492, heur = -6.0, depth = 6
iter = 3531, queue = 5495, heur = -6.0, depth = 6
iter = 3532, queue = 5498, heur = -6.0, depth = 6
iter = 3533, queue = 5499, heur = -6.0, depth = 6
iter = 3534, queue = 5500, heur = -6.0, depth = 6
iter = 3535, queue = 5501, heur = -6.0, depth = 6
iter = 3536, queue = 5500, heur = -6.0, depth = 6
iter = 3537, queue = 5501, heur = -6.0, depth = 6
iter = 3538, queue = 5503, heur = -6.0, depth = 8
iter = 3539, queue = 5504, heur = -6.0, depth = 6
iter = 3540, queue = 5506, heur = -6.0, depth = 6
iter = 3541, queue = 5507, heur = -6.0, depth = 6
iter = 3542, queue = 5510, heur = -6.0, depth = 6
```

```
iter = 3543, queue = 5511, heur = -6.0, depth = 6
iter = 3544, queue = 5512, heur = -6.0, depth = 6
iter = 3545, queue = 5512, heur = -6.0, depth = 6
iter = 3546, queue = 5512, heur = -6.0, depth = 6
iter = 3547, queue = 5511, heur = -6.0, depth = 6
iter = 3548, queue = 5512, heur = -6.0, depth = 6
iter = 3549, queue = 5513, heur = -6.0, depth = 6
iter = 3550, queue = 5512, heur = -6.0, depth = 6
iter = 3551, queue = 5513, heur = -6.0, depth = 6
iter = 3552, queue = 5514, heur = -6.0, depth = 6
iter = 3553, queue = 5516, heur = -6.0, depth = 6
iter = 3554, queue = 5519, heur = -6.0, depth = 6
iter = 3555, queue = 5521, heur = -6.0, depth = 6
iter = 3556, queue = 5524, heur = -6.0, depth = 6
iter = 3557, queue = 5525, heur = -6.0, depth = 6
iter = 3558, queue = 5526, heur = -6.0, depth = 6
iter = 3559, queue = 5528, heur = -6.0, depth = 6
iter = 3560, queue = 5531, heur = -6.0, depth = 6
iter = 3561, queue = 5532, heur = -6.0, depth = 6
iter = 3562, queue = 5535, heur = -6.0, depth = 6
iter = 3563, queue = 5534, heur = -6.0, depth = 6
iter = 3564, queue = 5535, heur = -6.0, depth = 6
iter = 3565, queue = 5538, heur = -6.0, depth = 6
iter = 3566, queue = 5539, heur = -6.0, depth = 6
iter = 3567, queue = 5540, heur = -6.0, depth = 6
iter = 3568, queue = 5540, heur = -6.0, depth = 6
iter = 3569, queue = 5542, heur = -6.0, depth = 6
iter = 3570, queue = 5545, heur = -6.0, depth = 6
iter = 3571, queue = 5547, heur = -6.0, depth = 6
iter = 3572, queue = 5548, heur = -6.0, depth = 6
iter = 3573, queue = 5549, heur = -6.0, depth = 6
iter = 3574, queue = 5552, heur = -6.0, depth = 6
iter = 3575, queue = 5553, heur = -6.0, depth = 6
iter = 3576, queue = 5552, heur = -6.0, depth = 6
iter = 3577, queue = 5554, heur = -6.0, depth = 6
iter = 3578, queue = 5554, heur = -6.0, depth = 6
iter = 3579, queue = 5555, heur = -6.0, depth = 6
iter = 3580, queue = 5554, heur = -6.0, depth = 6
iter = 3581, queue = 5556, heur = -6.0, depth = 6
iter = 3582, queue = 5558, heur = -6.0, depth = 6
iter = 3583, queue = 5559, heur = -7.0, depth = 7
iter = 3584, queue = 5562, heur = -7.0, depth = 7
iter = 3585, queue = 5565, heur = -7.0, depth = 7
iter = 3586, queue = 5564, heur = -7.0, depth = 9
iter = 3587, queue = 5565, heur = -7.0, depth = 8
iter = 3588, queue = 5566, heur = -7.0, depth = 7
iter = 3589, queue = 5565, heur = -7.0, depth = 7
iter = 3590, queue = 5568, heur = -7.0, depth = 7
iter = 3591, queue = 5569, heur = -7.0, depth = 7
iter = 3592, queue = 5571, heur = -7.0, depth = 7
iter = 3593, queue = 5572, heur = -7.0, depth = 7
iter = 3594, queue = 5572, heur = -7.0, depth = 7
iter = 3595, queue = 5572, heur = -7.0, depth = 7
iter = 3596, queue = 5572, heur = -7.0, depth = 7
iter = 3597, queue = 5573, heur = -7.0, depth = 7
iter = 3598, queue = 5573, heur = -7.0, depth = 7
iter = 3599, queue = 5574, heur = -7.0, depth = 7
iter = 3600, queue = 5577, heur = -7.0, depth = 7
iter = 3601, queue = 5578, heur = -7.0, depth = 9
```

```
iter = 3602, queue = 5581, heur = -7.0, depth = 7
iter = 3603, queue = 5584, heur = -7.0, depth = 7
iter = 3604, queue = 5585, heur = -7.0, depth = 8
iter = 3605, queue = 5587, heur = -7.0, depth = 7
iter = 3606, queue = 5586, heur = -7.0, depth = 7
iter = 3607, queue = 5587, heur = -7.0, depth = 7
iter = 3608, queue = 5588, heur = -7.0, depth = 7
iter = 3609, queue = 5591, heur = -7.0, depth = 7
iter = 3610, queue = 5592, heur = -7.0, depth = 7
iter = 3611, queue = 5593, heur = -7.0, depth = 7
iter = 3612, queue = 5596, heur = -7.0, depth = 7
iter = 3613, queue = 5597, heur = -7.0, depth = 7
iter = 3614, queue = 5600, heur = -7.0, depth = 7
iter = 3615, queue = 5600, heur = -7.0, depth = 7
iter = 3616, queue = 5601, heur = -7.0, depth = 7
iter = 3617, queue = 5604, heur = -7.0, depth = 7
iter = 3618, queue = 5607, heur = -7.0, depth = 7
iter = 3619, queue = 5610, heur = -7.0, depth = 7
iter = 3620, queue = 5613, heur = -7.0, depth = 7
iter = 3621, queue = 5614, heur = -7.0, depth = 7
iter = 3622, queue = 5615, heur = -7.0, depth = 7
iter = 3623, queue = 5615, heur = -7.0, depth = 7
iter = 3624, queue = 5616, heur = -7.0, depth = 7
iter = 3625, queue = 5617, heur = -7.0, depth = 7
iter = 3626, queue = 5619, heur = -7.0, depth = 7
iter = 3627, queue = 5620, heur = -7.0, depth = 7
iter = 3628, queue = 5623, heur = -7.0, depth = 7
iter = 3629, queue = 5624, heur = -7.0, depth = 7
iter = 3630, queue = 5626, heur = -7.0, depth = 7
iter = 3631, queue = 5627, heur = -7.0, depth = 7
iter = 3632, queue = 5628, heur = -7.0, depth = 7
iter = 3633, queue = 5631, heur = -7.0, depth = 7
iter = 3634, queue = 5631, heur = -7.0, depth = 7
iter = 3635, queue = 5632, heur = -7.0, depth = 7
iter = 3636, queue = 5633, heur = -7.0, depth = 7
iter = 3637, queue = 5635, heur = -7.0, depth = 7
iter = 3638, queue = 5636, heur = -7.0, depth = 7
iter = 3639, queue = 5637, heur = -7.0, depth = 7
iter = 3640, queue = 5638, heur = -7.0, depth = 7
iter = 3641, queue = 5639, heur = -7.0, depth = 7
iter = 3642, queue = 5640, heur = -7.0, depth = 7
iter = 3643, queue = 5641, heur = -7.0, depth = 7
iter = 3644, queue = 5644, heur = -7.0, depth = 7
iter = 3645, queue = 5645, heur = -7.0, depth = 7
iter = 3646, queue = 5648, heur = -7.0, depth = 7
iter = 3647, queue = 5648, heur = -7.0, depth = 7
iter = 3648, queue = 5647, heur = -7.0, depth = 7
iter = 3649, queue = 5648, heur = -7.0, depth = 7
iter = 3650, queue = 5649, heur = -7.0, depth = 7
iter = 3651, queue = 5652, heur = -7.0, depth = 7
iter = 3652, queue = 5653, heur = -7.0, depth = 7
iter = 3653, queue = 5654, heur = -7.0, depth = 7
iter = 3654, queue = 5657, heur = -7.0, depth = 7
iter = 3655, queue = 5658, heur = -7.0, depth = 7
iter = 3656, queue = 5660, heur = -7.0, depth = 7
iter = 3657, queue = 5662, heur = -7.0, depth = 7
iter = 3658, queue = 5661, heur = -7.0, depth = 7
iter = 3659, queue = 5662, heur = -7.0, depth = 7
iter = 3660, queue = 5663, heur = -7.0, depth = 7
```

```
iter = 3661, queue = 5664, heur = -7.0, depth = 7
iter = 3662, queue = 5667, heur = -7.0, depth = 7
iter = 3663, queue = 5669, heur = -7.0, depth = 7
iter = 3664, queue = 5670, heur = -7.0, depth = 7
iter = 3665, queue = 5671, heur = -7.0, depth = 7
iter = 3666, queue = 5672, heur = -7.0, depth = 7
iter = 3667, queue = 5675, heur = -7.0, depth = 7
iter = 3668, queue = 5676, heur = -7.0, depth = 7
iter = 3669, queue = 5678, heur = -7.0, depth = 7
iter = 3670, queue = 5679, heur = -7.0, depth = 7
iter = 3671, queue = 5681, heur = -7.0, depth = 7
iter = 3672, queue = 5682, heur = -7.0, depth = 7
iter = 3673, queue = 5684, heur = -7.0, depth = 7
iter = 3674, queue = 5687, heur = -7.0, depth = 7
iter = 3675, queue = 5688, heur = -7.0, depth = 7
iter = 3676, queue = 5690, heur = -7.0, depth = 7
iter = 3677, queue = 5692, heur = -7.0, depth = 7
iter = 3678, queue = 5691, heur = -7.0, depth = 7
iter = 3679, queue = 5694, heur = -7.0, depth = 7
iter = 3680, queue = 5695, heur = -7.0, depth = 7
iter = 3681, queue = 5696, heur = -7.0, depth = 7
iter = 3682, queue = 5697, heur = -7.0, depth = 7
iter = 3683, queue = 5700, heur = -7.0, depth = 8
iter = 3684, queue = 5701, heur = -7.0, depth = 7
iter = 3685, queue = 5702, heur = -7.0, depth = 7
iter = 3686, queue = 5703, heur = -7.0, depth = 7
iter = 3687, queue = 5706, heur = -7.0, depth = 7
iter = 3688, queue = 5709, heur = -7.0, depth = 7
iter = 3689, queue = 5710, heur = -7.0, depth = 7
iter = 3690, queue = 5713, heur = -7.0, depth = 7
iter = 3691, queue = 5716, heur = -7.0, depth = 7
iter = 3692, queue = 5719, heur = -7.0, depth = 7
iter = 3693, queue = 5722, heur = -7.0, depth = 7
iter = 3694, queue = 5724, heur = -7.0, depth = 7
iter = 3695, queue = 5724, heur = -7.0, depth = 7
iter = 3696, queue = 5726, heur = -7.0, depth = 7
iter = 3697, queue = 5729, heur = -7.0, depth = 7
iter = 3698, queue = 5732, heur = -7.0, depth = 7
iter = 3699, queue = 5733, heur = -7.0, depth = 7
iter = 3700, queue = 5735, heur = -7.0, depth = 7
iter = 3701, queue = 5736, heur = -7.0, depth = 7
iter = 3702, queue = 5739, heur = -7.0, depth = 7
iter = 3703, queue = 5738, heur = -7.0, depth = 7
iter = 3704, queue = 5740, heur = -7.0, depth = 7
iter = 3705, queue = 5741, heur = -7.0, depth = 7
iter = 3706, queue = 5742, heur = -7.0, depth = 7
iter = 3707, queue = 5743, heur = -7.0, depth = 7
iter = 3708, queue = 5746, heur = -7.0, depth = 7
iter = 3709, queue = 5747, heur = -7.0, depth = 7
iter = 3710, queue = 5748, heur = -7.0, depth = 7
iter = 3711, queue = 5747, heur = -7.0, depth = 7
iter = 3712, queue = 5748, heur = -7.0, depth = 7
iter = 3713, queue = 5748, heur = -7.0, depth = 7
iter = 3714, queue = 5749, heur = -7.0, depth = 7
iter = 3715, queue = 5752, heur = -7.0, depth = 7
iter = 3716, queue = 5753, heur = -7.0, depth = 7
iter = 3717, queue = 5754, heur = -7.0, depth = 7
iter = 3718, queue = 5755, heur = -7.0, depth = 7
iter = 3719, queue = 5757, heur = -7.0, depth = 7
```

```
iter = 3720, queue = 5758, heur = -7.0, depth = 7
iter = 3721, queue = 5759, heur = -7.0, depth = 7
iter = 3722, queue = 5762, heur = -7.0, depth = 7
iter = 3723, queue = 5765, heur = -7.0, depth = 7
iter = 3724, queue = 5766, heur = -7.0, depth = 7
iter = 3725, queue = 5769, heur = -7.0, depth = 7
iter = 3726, queue = 5772, heur = -7.0, depth = 7
iter = 3727, queue = 5773, heur = -7.0, depth = 7
iter = 3728, queue = 5776, heur = -7.0, depth = 7
iter = 3729, queue = 5779, heur = -7.0, depth = 7
iter = 3730, queue = 5780, heur = -7.0, depth = 7
iter = 3731, queue = 5783, heur = -7.0, depth = 7
iter = 3732, queue = 5784, heur = -7.0, depth = 8
iter = 3733, queue = 5784, heur = -7.0, depth = 7
iter = 3734, queue = 5784, heur = -7.0, depth = 7
iter = 3735, queue = 5785, heur = -7.0, depth = 7
iter = 3736, queue = 5788, heur = -7.0, depth = 7
iter = 3737, queue = 5791, heur = -7.0, depth = 7
iter = 3738, queue = 5792, heur = -7.0, depth = 7
iter = 3739, queue = 5794, heur = -7.0, depth = 7
iter = 3740, queue = 5795, heur = -7.0, depth = 7
iter = 3741, queue = 5796, heur = -7.0, depth = 7
iter = 3742, queue = 5797, heur = -7.0, depth = 7
iter = 3743, queue = 5799, heur = -7.0, depth = 7
iter = 3744, queue = 5800, heur = -7.0, depth = 10
iter = 3745, queue = 5802, heur = -7.0, depth = 7
iter = 3746, queue = 5803, heur = -7.0, depth = 10
iter = 3747, queue = 5806, heur = -7.0, depth = 7
iter = 3748, queue = 5808, heur = -7.0, depth = 7
iter = 3749, queue = 5809, heur = -7.0, depth = 7
iter = 3750, queue = 5812, heur = -7.0, depth = 7
iter = 3751, queue = 5813, heur = -7.0, depth = 7
iter = 3752, queue = 5814, heur = -7.0, depth = 9
iter = 3753, queue = 5817, heur = -7.0, depth = 7
iter = 3754, queue = 5818, heur = -7.0, depth = 7
iter = 3755, queue = 5821, heur = -7.0, depth = 7
iter = 3756, queue = 5824, heur = -7.0, depth = 7
iter = 3757, queue = 5827, heur = -7.0, depth = 7
iter = 3758, queue = 5827, heur = -7.0, depth = 7
iter = 3759, queue = 5827, heur = -7.0, depth = 7
iter = 3760, queue = 5830, heur = -7.0, depth = 8
iter = 3761, queue = 5833, heur = -7.0, depth = 7
iter = 3762, queue = 5834, heur = -7.0, depth = 7
iter = 3763, queue = 5833, heur = -7.0, depth = 7
iter = 3764, queue = 5834, heur = -7.0, depth = 7
iter = 3765, queue = 5835, heur = -7.0, depth = 7
iter = 3766, queue = 5838, heur = -7.0, depth = 7
iter = 3767, queue = 5839, heur = -7.0, depth = 7
iter = 3768, queue = 5839, heur = -7.0, depth = 7
iter = 3769, queue = 5840, heur = -7.0, depth = 7
iter = 3770, queue = 5841, heur = -7.0, depth = 7
iter = 3771, queue = 5841, heur = -7.0, depth = 7
iter = 3772, queue = 5842, heur = -7.0, depth = 7
iter = 3773, queue = 5845, heur = -7.0, depth = 9
iter = 3774, queue = 5846, heur = -7.0, depth = 7
iter = 3775, queue = 5848, heur = -7.0, depth = 7
iter = 3776, queue = 5849, heur = -7.0, depth = 7
iter = 3777, queue = 5852, heur = -7.0, depth = 7
iter = 3778, queue = 5855, heur = -7.0, depth = 7
```

```
iter = 3779, queue = 5858, heur = -7.0, depth = 7
iter = 3780, queue = 5861, heur = -7.0, depth = 7
iter = 3781, queue = 5862, heur = -7.0, depth = 7
iter = 3782, queue = 5864, heur = -7.0, depth = 7
iter = 3783, queue = 5866, heur = -7.0, depth = 7
iter = 3784, queue = 5867, heur = -7.0, depth = 7
iter = 3785, queue = 5869, heur = -7.0, depth = 7
iter = 3786, queue = 5868, heur = -7.0, depth = 7
iter = 3787, queue = 5867, heur = -7.0, depth = 7
iter = 3788, queue = 5869, heur = -7.0, depth = 7
iter = 3789, queue = 5871, heur = -7.0, depth = 7
iter = 3790, queue = 5874, heur = -7.0, depth = 7
iter = 3791, queue = 5875, heur = -7.0, depth = 7
iter = 3792, queue = 5878, heur = -7.0, depth = 7
iter = 3793, queue = 5881, heur = -7.0, depth = 7
iter = 3794, queue = 5884, heur = -7.0, depth = 7
iter = 3795, queue = 5885, heur = -7.0, depth = 7
iter = 3796, queue = 5887, heur = -7.0, depth = 7
iter = 3797, queue = 5888, heur = -7.0, depth = 7
iter = 3798, queue = 5889, heur = -7.0, depth = 7
iter = 3799, queue = 5890, heur = -7.0, depth = 7
iter = 3800, queue = 5893, heur = -7.0, depth = 7
iter = 3801, queue = 5896, heur = -7.0, depth = 7
iter = 3802, queue = 5898, heur = -7.0, depth = 7
iter = 3803, queue = 5900, heur = -7.0, depth = 7
iter = 3804, queue = 5902, heur = -7.0, depth = 7
iter = 3805, queue = 5905, heur = -7.0, depth = 7
iter = 3806, queue = 5907, heur = -7.0, depth = 7
iter = 3807, queue = 5910, heur = -7.0, depth = 7
iter = 3808, queue = 5910, heur = -7.0, depth = 7
iter = 3809, queue = 5912, heur = -7.0, depth = 7
iter = 3810, queue = 5913, heur = -7.0, depth = 7
iter = 3811, queue = 5913, heur = -7.0, depth = 7
iter = 3812, queue = 5915, heur = -7.0, depth = 7
iter = 3813, queue = 5914, heur = -7.0, depth = 7
iter = 3814, queue = 5915, heur = -7.0, depth = 7
iter = 3815, queue = 5914, heur = -7.0, depth = 7
iter = 3816, queue = 5915, heur = -7.0, depth = 7
iter = 3817, queue = 5916, heur = -7.0, depth = 7
iter = 3818, queue = 5919, heur = -7.0, depth = 7
iter = 3819, queue = 5921, heur = -7.0, depth = 7
iter = 3820, queue = 5924, heur = -7.0, depth = 7
iter = 3821, queue = 5924, heur = -7.0, depth = 7
iter = 3822, queue = 5927, heur = -7.0, depth = 7
iter = 3823, queue = 5928, heur = -7.0, depth = 7
iter = 3824, queue = 5929, heur = -7.0, depth = 7
iter = 3825, queue = 5931, heur = -7.0, depth = 7
iter = 3826, queue = 5932, heur = -7.0, depth = 7
iter = 3827, queue = 5933, heur = -7.0, depth = 7
iter = 3828, queue = 5934, heur = -7.0, depth = 7
iter = 3829, queue = 5935, heur = -7.0, depth = 7
iter = 3830, queue = 5936, heur = -7.0, depth = 7
iter = 3831, queue = 5938, heur = -7.0, depth = 7
iter = 3832, queue = 5939, heur = -7.0, depth = 7
iter = 3833, queue = 5942, heur = -7.0, depth = 7
iter = 3834, queue = 5943, heur = -7.0, depth = 7
iter = 3835, queue = 5945, heur = -7.0, depth = 7
iter = 3836, queue = 5948, heur = -7.0, depth = 7
iter = 3837, queue = 5949, heur = -7.0, depth = 7
```

```
iter = 3838, queue = 5952, heur = -7.0, depth = 7
iter = 3839, queue = 5955, heur = -7.0, depth = 7
iter = 3840, queue = 5957, heur = -7.0, depth = 7
iter = 3841, queue = 5958, heur = -7.0, depth = 8
iter = 3842, queue = 5959, heur = -7.0, depth = 7
iter = 3843, queue = 5960, heur = -7.0, depth = 7
iter = 3844, queue = 5961, heur = -7.0, depth = 7
iter = 3845, queue = 5964, heur = -7.0, depth = 7
iter = 3846, queue = 5966, heur = -7.0, depth = 7
iter = 3847, queue = 5966, heur = -7.0, depth = 7
iter = 3848, queue = 5969, heur = -7.0, depth = 7
iter = 3849, queue = 5970, heur = -7.0, depth = 7
iter = 3850, queue = 5971, heur = -7.0, depth = 7
iter = 3851, queue = 5972, heur = -7.0, depth = 7
iter = 3852, queue = 5975, heur = -7.0, depth = 7
iter = 3853, queue = 5976, heur = -7.0, depth = 7
iter = 3854, queue = 5976, heur = -7.0, depth = 7
iter = 3855, queue = 5977, heur = -7.0, depth = 7
iter = 3856, queue = 5976, heur = -7.0, depth = 7
iter = 3857, queue = 5977, heur = -7.0, depth = 7
iter = 3858, queue = 5980, heur = -7.0, depth = 7
iter = 3859, queue = 5983, heur = -7.0, depth = 7
iter = 3860, queue = 5983, heur = -7.0, depth = 7
iter = 3861, queue = 5986, heur = -7.0, depth = 7
iter = 3862, queue = 5989, heur = -7.0, depth = 7
iter = 3863, queue = 5990, heur = -7.0, depth = 7
iter = 3864, queue = 5993, heur = -7.0, depth = 7
iter = 3865, queue = 5996, heur = -7.0, depth = 7
iter = 3866, queue = 5997, heur = -7.0, depth = 7
iter = 3867, queue = 5998, heur = -7.0, depth = 7
iter = 3868, queue = 6000, heur = -7.0, depth = 7
iter = 3869, queue = 6001, heur = -7.0, depth = 7
iter = 3870, queue = 6004, heur = -7.0, depth = 7
iter = 3871, queue = 6005, heur = -7.0, depth = 7
iter = 3872, queue = 6006, heur = -7.0, depth = 7
iter = 3873, queue = 6005, heur = -7.0, depth = 7
iter = 3874, queue = 6006, heur = -7.0, depth = 7
iter = 3875, queue = 6009, heur = -7.0, depth = 7
iter = 3876, queue = 6010, heur = -7.0, depth = 7
iter = 3877, queue = 6011, heur = -7.0, depth = 7
iter = 3878, queue = 6012, heur = -7.0, depth = 7
iter = 3879, queue = 6012, heur = -7.0, depth = 7
iter = 3880, queue = 6013, heur = -7.0, depth = 7
iter = 3881, queue = 6012, heur = -7.0, depth = 7
iter = 3882, queue = 6014, heur = -7.0, depth = 7
iter = 3883, queue = 6015, heur = -7.0, depth = 7
iter = 3884, queue = 6016, heur = -7.0, depth = 7
iter = 3885, queue = 6017, heur = -7.0, depth = 7
iter = 3886, queue = 6020, heur = -7.0, depth = 7
iter = 3887, queue = 6021, heur = -7.0, depth = 7
iter = 3888, queue = 6024, heur = -7.0, depth = 7
iter = 3889, queue = 6025, heur = -7.0, depth = 7
iter = 3890, queue = 6026, heur = -7.0, depth = 7
iter = 3891, queue = 6028, heur = -7.0, depth = 7
iter = 3892, queue = 6031, heur = -7.0, depth = 7
iter = 3893, queue = 6031, heur = -7.0, depth = 7
iter = 3894, queue = 6030, heur = -7.0, depth = 7
iter = 3895, queue = 6031, heur = -7.0, depth = 7
iter = 3896, queue = 6030, heur = -7.0, depth = 7
```

```
iter = 3897, queue = 6031, heur = -7.0, depth = 7
iter = 3898, queue = 6034, heur = -7.0, depth = 7
iter = 3899, queue = 6035, heur = -7.0, depth = 7
iter = 3900, queue = 6035, heur = -7.0, depth = 7
iter = 3901, queue = 6034, heur = -7.0, depth = 7
iter = 3902, queue = 6035, heur = -7.0, depth = 7
iter = 3903, queue = 6038, heur = -7.0, depth = 7
iter = 3904, queue = 6041, heur = -7.0, depth = 8
iter = 3905, queue = 6041, heur = -7.0, depth = 7
iter = 3906, queue = 6044, heur = -7.0, depth = 7
iter = 3907, queue = 6047, heur = -7.0, depth = 7
iter = 3908, queue = 6050, heur = -7.0, depth = 7
iter = 3909, queue = 6050, heur = -7.0, depth = 7
iter = 3910, queue = 6051, heur = -7.0, depth = 7
iter = 3911, queue = 6052, heur = -7.0, depth = 7
iter = 3912, queue = 6052, heur = -7.0, depth = 7
iter = 3913, queue = 6054, heur = -7.0, depth = 7
iter = 3914, queue = 6055, heur = -7.0, depth = 7
iter = 3915, queue = 6056, heur = -7.0, depth = 7
iter = 3916, queue = 6057, heur = -7.0, depth = 7
iter = 3917, queue = 6059, heur = -7.0, depth = 7
iter = 3918, queue = 6060, heur = -7.0, depth = 7
iter = 3919, queue = 6061, heur = -7.0, depth = 7
iter = 3920, queue = 6062, heur = -7.0, depth = 7
iter = 3921, queue = 6063, heur = -7.0, depth = 7
iter = 3922, queue = 6064, heur = -7.0, depth = 7
iter = 3923, queue = 6065, heur = -7.0, depth = 7
iter = 3924, queue = 6067, heur = -7.0, depth = 7
iter = 3925, queue = 6068, heur = -7.0, depth = 7
iter = 3926, queue = 6067, heur = -7.0, depth = 7
iter = 3927, queue = 6070, heur = -7.0, depth = 7
iter = 3928, queue = 6073, heur = -7.0, depth = 7
iter = 3929, queue = 6074, heur = -7.0, depth = 7
iter = 3930, queue = 6073, heur = -7.0, depth = 7
iter = 3931, queue = 6074, heur = -7.0, depth = 7
iter = 3932, queue = 6075, heur = -7.0, depth = 7
iter = 3933, queue = 6076, heur = -7.0, depth = 7
iter = 3934, queue = 6079, heur = -7.0, depth = 7
iter = 3935, queue = 6080, heur = -7.0, depth = 7
iter = 3936, queue = 6082, heur = -7.0, depth = 7
iter = 3937, queue = 6083, heur = -7.0, depth = 7
iter = 3938, queue = 6085, heur = -7.0, depth = 7
iter = 3939, queue = 6087, heur = -7.0, depth = 7
iter = 3940, queue = 6088, heur = -7.0, depth = 7
iter = 3941, queue = 6089, heur = -7.0, depth = 7
iter = 3942, queue = 6090, heur = -7.0, depth = 7
iter = 3943, queue = 6089, heur = -7.0, depth = 7
iter = 3944, queue = 6091, heur = -7.0, depth = 7
iter = 3945, queue = 6092, heur = -7.0, depth = 7
iter = 3946, queue = 6092, heur = -7.0, depth = 7
iter = 3947, queue = 6093, heur = -7.0, depth = 7
iter = 3948, queue = 6095, heur = -7.0, depth = 7
iter = 3949, queue = 6097, heur = -7.0, depth = 7
iter = 3950, queue = 6100, heur = -7.0, depth = 7
iter = 3951, queue = 6101, heur = -7.0, depth = 7
iter = 3952, queue = 6104, heur = -7.0, depth = 7
iter = 3953, queue = 6105, heur = -7.0, depth = 7
iter = 3954, queue = 6108, heur = -7.0, depth = 8
iter = 3955, queue = 6109, heur = -7.0, depth = 7
```

```
iter = 3956, queue = 6112, heur = -7.0, depth = 7
iter = 3957, queue = 6115, heur = -7.0, depth = 7
iter = 3958, queue = 6116, heur = -7.0, depth = 7
iter = 3959, queue = 6115, heur = -7.0, depth = 7
iter = 3960, queue = 6116, heur = -7.0, depth = 7
iter = 3961, queue = 6117, heur = -7.0, depth = 7
iter = 3962, queue = 6116, heur = -7.0, depth = 7
iter = 3963, queue = 6117, heur = -7.0, depth = 7
iter = 3964, queue = 6118, heur = -7.0, depth = 7
iter = 3965, queue = 6119, heur = -7.0, depth = 7
iter = 3966, queue = 6120, heur = -7.0, depth = 7
iter = 3967, queue = 6120, heur = -7.0, depth = 7
iter = 3968, queue = 6121, heur = -7.0, depth = 7
iter = 3969, queue = 6122, heur = -7.0, depth = 7
iter = 3970, queue = 6123, heur = -7.0, depth = 7
iter = 3971, queue = 6124, heur = -7.0, depth = 7
iter = 3972, queue = 6127, heur = -7.0, depth = 7
iter = 3973, queue = 6128, heur = -7.0, depth = 7
iter = 3974, queue = 6129, heur = -7.0, depth = 7
iter = 3975, queue = 6132, heur = -7.0, depth = 7
iter = 3976, queue = 6132, heur = -7.0, depth = 7
iter = 3977, queue = 6135, heur = -7.0, depth = 7
iter = 3978, queue = 6136, heur = -7.0, depth = 7
iter = 3979, queue = 6138, heur = -7.0, depth = 7
iter = 3980, queue = 6139, heur = -7.0, depth = 7
iter = 3981, queue = 6142, heur = -7.0, depth = 7
iter = 3982, queue = 6142, heur = -7.0, depth = 7
iter = 3983, queue = 6143, heur = -7.0, depth = 7
iter = 3984, queue = 6146, heur = -7.0, depth = 8
iter = 3985, queue = 6147, heur = -7.0, depth = 7
iter = 3986, queue = 6149, heur = -7.0, depth = 7
iter = 3987, queue = 6152, heur = -7.0, depth = 7
iter = 3988, queue = 6153, heur = -7.0, depth = 7
iter = 3989, queue = 6154, heur = -7.0, depth = 7
iter = 3990, queue = 6153, heur = -7.0, depth = 7
iter = 3991, queue = 6156, heur = -7.0, depth = 7
iter = 3992, queue = 6157, heur = -7.0, depth = 7
iter = 3993, queue = 6158, heur = -7.0, depth = 7
iter = 3994, queue = 6158, heur = -7.0, depth = 7
iter = 3995, queue = 6161, heur = -7.0, depth = 7
iter = 3996, queue = 6163, heur = -7.0, depth = 7
iter = 3997, queue = 6166, heur = -7.0, depth = 7
iter = 3998, queue = 6169, heur = -7.0, depth = 7
iter = 3999, queue = 6172, heur = -7.0, depth = 7
iter = 4000, queue = 6175, heur = -7.0, depth = 7
iter = 4001, queue = 6176, heur = -7.0, depth = 7
iter = 4002, queue = 6179, heur = -7.0, depth = 7
iter = 4003, queue = 6181, heur = -7.0, depth = 7
iter = 4004, queue = 6184, heur = -7.0, depth = 7
iter = 4005, queue = 6186, heur = -7.0, depth = 7
iter = 4006, queue = 6187, heur = -7.0, depth = 7
iter = 4007, queue = 6190, heur = -7.0, depth = 7
iter = 4008, queue = 6192, heur = -7.0, depth = 7
iter = 4009, queue = 6193, heur = -7.0, depth = 7
iter = 4010, queue = 6194, heur = -7.0, depth = 7
iter = 4011, queue = 6195, heur = -7.0, depth = 7
iter = 4012, queue = 6198, heur = -7.0, depth = 7
iter = 4013, queue = 6199, heur = -7.0, depth = 7
iter = 4014, queue = 6200, heur = -7.0, depth = 7
```

```
iter = 4015, queue = 6203, heur = -7.0, depth = 7
iter = 4016, queue = 6206, heur = -7.0, depth = 7
iter = 4017, queue = 6208, heur = -7.0, depth = 7
iter = 4018, queue = 6211, heur = -7.0, depth = 7
iter = 4019, queue = 6214, heur = -7.0, depth = 7
iter = 4020, queue = 6213, heur = -7.0, depth = 7
iter = 4021, queue = 6213, heur = -7.0, depth = 7
iter = 4022, queue = 6214, heur = -7.0, depth = 7
iter = 4023, queue = 6217, heur = -7.0, depth = 7
iter = 4024, queue = 6218, heur = -7.0, depth = 7
iter = 4025, queue = 6219, heur = -7.0, depth = 7
iter = 4026, queue = 6222, heur = -7.0, depth = 7
iter = 4027, queue = 6225, heur = -7.0, depth = 7
iter = 4028, queue = 6227, heur = -7.0, depth = 7
iter = 4029, queue = 6229, heur = -7.0, depth = 7
iter = 4030, queue = 6231, heur = -7.0, depth = 7
iter = 4031, queue = 6232, heur = -7.0, depth = 7
iter = 4032, queue = 6232, heur = -7.0, depth = 7
iter = 4033, queue = 6233, heur = -7.0, depth = 7
iter = 4034, queue = 6235, heur = -7.0, depth = 7
iter = 4035, queue = 6236, heur = -7.0, depth = 7
iter = 4036, queue = 6236, heur = -7.0, depth = 7
iter = 4037, queue = 6239, heur = -7.0, depth = 7
iter = 4038, queue = 6240, heur = -7.0, depth = 7
iter = 4039, queue = 6242, heur = -7.0, depth = 7
iter = 4040, queue = 6243, heur = -7.0, depth = 7
iter = 4041, queue = 6246, heur = -7.0, depth = 7
iter = 4042, queue = 6247, heur = -7.0, depth = 7
iter = 4043, queue = 6249, heur = -7.0, depth = 7
iter = 4044, queue = 6252, heur = -7.0, depth = 7
iter = 4045, queue = 6253, heur = -7.0, depth = 7
iter = 4046, queue = 6256, heur = -7.0, depth = 7
iter = 4047, queue = 6259, heur = -7.0, depth = 7
iter = 4048, queue = 6260, heur = -7.0, depth = 7
iter = 4049, queue = 6261, heur = -7.0, depth = 7
iter = 4050, queue = 6263, heur = -7.0, depth = 7
iter = 4051, queue = 6266, heur = -7.0, depth = 7
iter = 4052, queue = 6269, heur = -7.0, depth = 7
iter = 4053, queue = 6270, heur = -7.0, depth = 7
iter = 4054, queue = 6271, heur = -7.0, depth = 7
iter = 4055, queue = 6272, heur = -7.0, depth = 7
iter = 4056, queue = 6273, heur = -7.0, depth = 7
iter = 4057, queue = 6274, heur = -7.0, depth = 7
iter = 4058, queue = 6277, heur = -7.0, depth = 7
iter = 4059, queue = 6278, heur = -7.0, depth = 7
iter = 4060, queue = 6281, heur = -7.0, depth = 7
iter = 4061, queue = 6282, heur = -7.0, depth = 7
iter = 4062, queue = 6285, heur = -7.0, depth = 7
iter = 4063, queue = 6288, heur = -7.0, depth = 7
iter = 4064, queue = 6289, heur = -7.0, depth = 7
iter = 4065, queue = 6292, heur = -7.0, depth = 7
iter = 4066, queue = 6293, heur = -7.0, depth = 7
iter = 4067, queue = 6294, heur = -7.0, depth = 7
iter = 4068, queue = 6295, heur = -7.0, depth = 7
iter = 4069, queue = 6298, heur = -7.0, depth = 7
iter = 4070, queue = 6301, heur = -7.0, depth = 7
iter = 4071, queue = 6302, heur = -7.0, depth = 7
iter = 4072, queue = 6303, heur = -7.0, depth = 7
iter = 4073, queue = 6304, heur = -7.0, depth = 7
```

```
iter = 4074, queue = 6306, heur = -7.0, depth = 7
iter = 4075, queue = 6308, heur = -7.0, depth = 7
iter = 4076, queue = 6307, heur = -7.0, depth = 7
iter = 4077, queue = 6306, heur = -7.0, depth = 7
iter = 4078, queue = 6308, heur = -7.0, depth = 7
iter = 4079, queue = 6309, heur = -7.0, depth = 7
iter = 4080, queue = 6311, heur = -7.0, depth = 7
iter = 4081, queue = 6314, heur = -7.0, depth = 7
iter = 4082, queue = 6317, heur = -7.0, depth = 7
iter = 4083, queue = 6318, heur = -7.0, depth = 7
iter = 4084, queue = 6319, heur = -7.0, depth = 7
iter = 4085, queue = 6322, heur = -7.0, depth = 7
iter = 4086, queue = 6323, heur = -7.0, depth = 7
iter = 4087, queue = 6324, heur = -7.0, depth = 7
iter = 4088, queue = 6325, heur = -7.0, depth = 7
iter = 4089, queue = 6326, heur = -7.0, depth = 7
iter = 4090, queue = 6325, heur = -7.0, depth = 7
iter = 4091, queue = 6328, heur = -7.0, depth = 7
iter = 4092, queue = 6329, heur = -7.0, depth = 7
iter = 4093, queue = 6331, heur = -7.0, depth = 7
iter = 4094, queue = 6332, heur = -7.0, depth = 7
iter = 4095, queue = 6333, heur = -7.0, depth = 7
iter = 4096, queue = 6336, heur = -7.0, depth = 7
iter = 4097, queue = 6337, heur = -7.0, depth = 7
iter = 4098, queue = 6337, heur = -7.0, depth = 7
iter = 4099, queue = 6336, heur = -7.0, depth = 7
iter = 4100, queue = 6335, heur = -7.0, depth = 7
iter = 4101, queue = 6336, heur = -7.0, depth = 7
iter = 4102, queue = 6337, heur = -7.0, depth = 7
iter = 4103, queue = 6340, heur = -7.0, depth = 7
iter = 4104, queue = 6343, heur = -7.0, depth = 7
iter = 4105, queue = 6344, heur = -7.0, depth = 7
iter = 4106, queue = 6347, heur = -7.0, depth = 7
iter = 4107, queue = 6347, heur = -7.0, depth = 7
iter = 4108, queue = 6348, heur = -7.0, depth = 7
iter = 4109, queue = 6351, heur = -7.0, depth = 8
iter = 4110, queue = 6352, heur = -7.0, depth = 7
iter = 4111, queue = 6353, heur = -7.0, depth = 7
iter = 4112, queue = 6355, heur = -7.0, depth = 7
iter = 4113, queue = 6357, heur = -7.0, depth = 7
iter = 4114, queue = 6360, heur = -7.0, depth = 7
iter = 4115, queue = 6361, heur = -7.0, depth = 7
iter = 4116, queue = 6360, heur = -7.0, depth = 7
iter = 4117, queue = 6361, heur = -7.0, depth = 7
iter = 4118, queue = 6361, heur = -7.0, depth = 7
iter = 4119, queue = 6362, heur = -7.0, depth = 7
iter = 4120, queue = 6364, heur = -7.0, depth = 7
iter = 4121, queue = 6367, heur = -7.0, depth = 7
iter = 4122, queue = 6370, heur = -7.0, depth = 7
iter = 4123, queue = 6371, heur = -7.0, depth = 7
iter = 4124, queue = 6373, heur = -7.0, depth = 7
iter = 4125, queue = 6374, heur = -7.0, depth = 7
iter = 4126, queue = 6375, heur = -7.0, depth = 7
iter = 4127, queue = 6376, heur = -7.0, depth = 7
iter = 4128, queue = 6377, heur = -7.0, depth = 7
iter = 4129, queue = 6380, heur = -7.0, depth = 7
iter = 4130, queue = 6381, heur = -7.0, depth = 7
iter = 4131, queue = 6382, heur = -7.0, depth = 7
iter = 4132, queue = 6383, heur = -7.0, depth = 7
```

```
iter = 4133, queue = 6385, heur = -7.0, depth = 7
iter = 4134, queue = 6386, heur = -7.0, depth = 7
iter = 4135, queue = 6389, heur = -7.0, depth = 7
iter = 4136, queue = 6388, heur = -7.0, depth = 7
iter = 4137, queue = 6389, heur = -7.0, depth = 7
iter = 4138, queue = 6392, heur = -7.0, depth = 7
iter = 4139, queue = 6393, heur = -7.0, depth = 7
iter = 4140, queue = 6396, heur = -7.0, depth = 7
iter = 4141, queue = 6399, heur = -7.0, depth = 7
iter = 4142, queue = 6398, heur = -7.0, depth = 7
iter = 4143, queue = 6399, heur = -7.0, depth = 7
iter = 4144, queue = 6402, heur = -7.0, depth = 7
iter = 4145, queue = 6405, heur = -7.0, depth = 7
iter = 4146, queue = 6406, heur = -7.0, depth = 7
iter = 4147, queue = 6409, heur = -7.0, depth = 7
iter = 4148, queue = 6410, heur = -7.0, depth = 7
iter = 4149, queue = 6411, heur = -7.0, depth = 7
iter = 4150, queue = 6413, heur = -7.0, depth = 7
iter = 4151, queue = 6413, heur = -7.0, depth = 7
iter = 4152, queue = 6412, heur = -7.0, depth = 7
iter = 4153, queue = 6415, heur = -7.0, depth = 7
iter = 4154, queue = 6415, heur = -7.0, depth = 7
iter = 4155, queue = 6416, heur = -7.0, depth = 7
iter = 4156, queue = 6417, heur = -7.0, depth = 7
iter = 4157, queue = 6416, heur = -7.0, depth = 7
iter = 4158, queue = 6419, heur = -7.0, depth = 7
iter = 4159, queue = 6422, heur = -7.0, depth = 7
iter = 4160, queue = 6423, heur = -7.0, depth = 7
iter = 4161, queue = 6424, heur = -7.0, depth = 7
iter = 4162, queue = 6427, heur = -7.0, depth = 7
iter = 4163, queue = 6429, heur = -7.0, depth = 7
iter = 4164, queue = 6432, heur = -7.0, depth = 7
iter = 4165, queue = 6431, heur = -7.0, depth = 7
iter = 4166, queue = 6433, heur = -7.0, depth = 7
iter = 4167, queue = 6436, heur = -7.0, depth = 7
iter = 4168, queue = 6437, heur = -7.0, depth = 7
iter = 4169, queue = 6440, heur = -7.0, depth = 7
iter = 4170, queue = 6443, heur = -7.0, depth = 7
iter = 4171, queue = 6444, heur = -7.0, depth = 7
iter = 4172, queue = 6447, heur = -7.0, depth = 7
iter = 4173, queue = 6448, heur = -7.0, depth = 7
iter = 4174, queue = 6450, heur = -7.0, depth = 7
iter = 4175, queue = 6453, heur = -7.0, depth = 7
iter = 4176, queue = 6456, heur = -7.0, depth = 7
iter = 4177, queue = 6455, heur = -7.0, depth = 7
iter = 4178, queue = 6457, heur = -7.0, depth = 7
iter = 4179, queue = 6460, heur = -7.0, depth = 7
iter = 4180, queue = 6463, heur = -7.0, depth = 7
iter = 4181, queue = 6464, heur = -7.0, depth = 7
iter = 4182, queue = 6465, heur = -7.0, depth = 7
iter = 4183, queue = 6464, heur = -7.0, depth = 7
iter = 4184, queue = 6467, heur = -7.0, depth = 7
iter = 4185, queue = 6470, heur = -7.0, depth = 7
iter = 4186, queue = 6473, heur = -7.0, depth = 7
iter = 4187, queue = 6474, heur = -7.0, depth = 7
iter = 4188, queue = 6475, heur = -7.0, depth = 7
iter = 4189, queue = 6476, heur = -7.0, depth = 7
iter = 4190, queue = 6477, heur = -7.0, depth = 7
iter = 4191, queue = 6478, heur = -7.0, depth = 7
```

```
iter = 4192, queue = 6479, heur = -7.0, depth = 7
iter = 4193, queue = 6481, heur = -7.0, depth = 7
iter = 4194, queue = 6482, heur = -7.0, depth = 7
iter = 4195, queue = 6483, heur = -7.0, depth = 7
iter = 4196, queue = 6484, heur = -7.0, depth = 7
iter = 4197, queue = 6485, heur = -7.0, depth = 7
iter = 4198, queue = 6486, heur = -7.0, depth = 7
iter = 4199, queue = 6489, heur = -7.0, depth = 7
iter = 4200, queue = 6492, heur = -7.0, depth = 7
iter = 4201, queue = 6495, heur = -7.0, depth = 7
iter = 4202, queue = 6495, heur = -7.0, depth = 7
iter = 4203, queue = 6498, heur = -7.0, depth = 7
iter = 4204, queue = 6501, heur = -7.0, depth = 7
iter = 4205, queue = 6504, heur = -7.0, depth = 7
iter = 4206, queue = 6505, heur = -7.0, depth = 7
iter = 4207, queue = 6504, heur = -7.0, depth = 7
iter = 4208, queue = 6507, heur = -7.0, depth = 7
iter = 4209, queue = 6509, heur = -7.0, depth = 7
iter = 4210, queue = 6512, heur = -7.0, depth = 7
iter = 4211, queue = 6512, heur = -7.0, depth = 7
iter = 4212, queue = 6515, heur = -7.0, depth = 7
iter = 4213, queue = 6514, heur = -7.0, depth = 7
iter = 4214, queue = 6517, heur = -7.0, depth = 7
iter = 4215, queue = 6520, heur = -7.0, depth = 7
iter = 4216, queue = 6523, heur = -7.0, depth = 7
iter = 4217, queue = 6523, heur = -7.0, depth = 7
iter = 4218, queue = 6526, heur = -7.0, depth = 7
iter = 4219, queue = 6529, heur = -7.0, depth = 7
iter = 4220, queue = 6531, heur = -7.0, depth = 7
iter = 4221, queue = 6531, heur = -7.0, depth = 7
iter = 4222, queue = 6532, heur = -7.0, depth = 7
iter = 4223, queue = 6533, heur = -7.0, depth = 7
iter = 4224, queue = 6534, heur = -7.0, depth = 7
iter = 4225, queue = 6535, heur = -7.0, depth = 7
iter = 4226, queue = 6536, heur = -7.0, depth = 7
iter = 4227, queue = 6537, heur = -7.0, depth = 7
iter = 4228, queue = 6538, heur = -7.0, depth = 7
iter = 4229, queue = 6541, heur = -7.0, depth = 7
iter = 4230, queue = 6544, heur = -7.0, depth = 7
iter = 4231, queue = 6544, heur = -7.0, depth = 7
iter = 4232, queue = 6545, heur = -7.0, depth = 7
iter = 4233, queue = 6548, heur = -7.0, depth = 7
iter = 4234, queue = 6547, heur = -7.0, depth = 7
iter = 4235, queue = 6547, heur = -7.0, depth = 7
iter = 4236, queue = 6550, heur = -7.0, depth = 7
iter = 4237, queue = 6553, heur = -7.0, depth = 7
iter = 4238, queue = 6554, heur = -7.0, depth = 7
iter = 4239, queue = 6557, heur = -7.0, depth = 7
iter = 4240, queue = 6560, heur = -7.0, depth = 7
iter = 4241, queue = 6562, heur = -7.0, depth = 7
iter = 4242, queue = 6561, heur = -7.0, depth = 7
iter = 4243, queue = 6562, heur = -7.0, depth = 7
iter = 4244, queue = 6565, heur = -7.0, depth = 7
iter = 4245, queue = 6566, heur = -7.0, depth = 7
iter = 4246, queue = 6566, heur = -7.0, depth = 7
iter = 4247, queue = 6567, heur = -7.0, depth = 7
iter = 4248, queue = 6570, heur = -7.0, depth = 7
iter = 4249, queue = 6573, heur = -7.0, depth = 7
iter = 4250, queue = 6574, heur = -7.0, depth = 7
```

```
iter = 4251, queue = 6577, heur = -7.0, depth = 7
iter = 4252, queue = 6577, heur = -7.0, depth = 7
iter = 4253, queue = 6580, heur = -7.0, depth = 7
iter = 4254, queue = 6583, heur = -7.0, depth = 7
iter = 4255, queue = 6586, heur = -7.0, depth = 7
iter = 4256, queue = 6589, heur = -7.0, depth = 7
iter = 4257, queue = 6592, heur = -7.0, depth = 7
iter = 4258, queue = 6593, heur = -7.0, depth = 7
iter = 4259, queue = 6594, heur = -7.0, depth = 7
iter = 4260, queue = 6595, heur = -7.0, depth = 7
iter = 4261, queue = 6598, heur = -7.0, depth = 7
iter = 4262, queue = 6601, heur = -7.0, depth = 7
iter = 4263, queue = 6602, heur = -7.0, depth = 7
iter = 4264, queue = 6603, heur = -7.0, depth = 7
iter = 4265, queue = 6604, heur = -7.0, depth = 7
iter = 4266, queue = 6606, heur = -7.0, depth = 7
iter = 4267, queue = 6608, heur = -7.0, depth = 7
iter = 4268, queue = 6611, heur = -7.0, depth = 7
iter = 4269, queue = 6614, heur = -7.0, depth = 7
iter = 4270, queue = 6615, heur = -7.0, depth = 7
iter = 4271, queue = 6618, heur = -7.0, depth = 7
iter = 4272, queue = 6619, heur = -7.0, depth = 7
iter = 4273, queue = 6620, heur = -7.0, depth = 7
iter = 4274, queue = 6623, heur = -7.0, depth = 7
iter = 4275, queue = 6622, heur = -7.0, depth = 7
iter = 4276, queue = 6622, heur = -7.0, depth = 7
iter = 4277, queue = 6623, heur = -7.0, depth = 7
iter = 4278, queue = 6625, heur = -7.0, depth = 7
iter = 4279, queue = 6628, heur = -7.0, depth = 7
iter = 4280, queue = 6631, heur = -7.0, depth = 7
iter = 4281, queue = 6632, heur = -7.0, depth = 7
iter = 4282, queue = 6633, heur = -7.0, depth = 7
iter = 4283, queue = 6636, heur = -7.0, depth = 7
iter = 4284, queue = 6635, heur = -7.0, depth = 7
iter = 4285, queue = 6637, heur = -7.0, depth = 7
iter = 4286, queue = 6640, heur = -7.0, depth = 7
iter = 4287, queue = 6643, heur = -7.0, depth = 7
iter = 4288, queue = 6644, heur = -7.0, depth = 7
iter = 4289, queue = 6647, heur = -7.0, depth = 7
iter = 4290, queue = 6650, heur = -7.0, depth = 7
iter = 4291, queue = 6653, heur = -7.0, depth = 7
iter = 4292, queue = 6654, heur = -7.0, depth = 7
iter = 4293, queue = 6655, heur = -7.0, depth = 8
iter = 4294, queue = 6656, heur = -7.0, depth = 7
iter = 4295, queue = 6657, heur = -7.0, depth = 7
iter = 4296, queue = 6658, heur = -7.0, depth = 7
iter = 4297, queue = 6659, heur = -7.0, depth = 7
iter = 4298, queue = 6660, heur = -7.0, depth = 7
iter = 4299, queue = 6662, heur = -7.0, depth = 7
iter = 4300, queue = 6665, heur = -7.0, depth = 7
iter = 4301, queue = 6668, heur = -7.0, depth = 7
iter = 4302, queue = 6669, heur = -7.0, depth = 7
iter = 4303, queue = 6672, heur = -7.0, depth = 7
iter = 4304, queue = 6674, heur = -7.0, depth = 7
iter = 4305, queue = 6676, heur = -7.0, depth = 7
iter = 4306, queue = 6677, heur = -7.0, depth = 7
iter = 4307, queue = 6678, heur = -7.0, depth = 7
iter = 4308, queue = 6678, heur = -7.0, depth = 7
iter = 4309, queue = 6679, heur = -7.0, depth = 7
```

```
iter = 4310, queue = 6680, heur = -7.0, depth = 7
iter = 4311, queue = 6683, heur = -7.0, depth = 7
iter = 4312, queue = 6686, heur = -7.0, depth = 7
iter = 4313, queue = 6687, heur = -7.0, depth = 7
iter = 4314, queue = 6690, heur = -7.0, depth = 7
iter = 4315, queue = 6691, heur = -7.0, depth = 7
iter = 4316, queue = 6690, heur = -7.0, depth = 7
iter = 4317, queue = 6691, heur = -7.0, depth = 7
iter = 4318, queue = 6692, heur = -7.0, depth = 7
iter = 4319, queue = 6695, heur = -7.0, depth = 7
iter = 4320, queue = 6696, heur = -7.0, depth = 7
iter = 4321, queue = 6697, heur = -7.0, depth = 7
iter = 4322, queue = 6698, heur = -7.0, depth = 7
iter = 4323, queue = 6701, heur = -7.0, depth = 7
iter = 4324, queue = 6702, heur = -7.0, depth = 7
iter = 4325, queue = 6704, heur = -7.0, depth = 7
iter = 4326, queue = 6704, heur = -7.0, depth = 7
iter = 4327, queue = 6707, heur = -7.0, depth = 7
iter = 4328, queue = 6708, heur = -7.0, depth = 9
iter = 4329, queue = 6710, heur = -7.0, depth = 7
iter = 4330, queue = 6710, heur = -7.0, depth = 7
iter = 4331, queue = 6711, heur = -7.0, depth = 7
iter = 4332, queue = 6714, heur = -7.0, depth = 7
iter = 4333, queue = 6715, heur = -7.0, depth = 7
iter = 4334, queue = 6717, heur = -7.0, depth = 7
iter = 4335, queue = 6719, heur = -7.0, depth = 7
iter = 4336, queue = 6718, heur = -7.0, depth = 7
iter = 4337, queue = 6719, heur = -7.0, depth = 7
iter = 4338, queue = 6720, heur = -7.0, depth = 7
iter = 4339, queue = 6721, heur = -7.0, depth = 7
iter = 4340, queue = 6724, heur = -7.0, depth = 7
iter = 4341, queue = 6725, heur = -7.0, depth = 7
iter = 4342, queue = 6726, heur = -7.0, depth = 7
iter = 4343, queue = 6727, heur = -7.0, depth = 7
iter = 4344, queue = 6728, heur = -7.0, depth = 7
iter = 4345, queue = 6731, heur = -7.0, depth = 7
iter = 4346, queue = 6734, heur = -7.0, depth = 7
iter = 4347, queue = 6735, heur = -7.0, depth = 7
iter = 4348, queue = 6734, heur = -7.0, depth = 7
iter = 4349, queue = 6737, heur = -7.0, depth = 7
iter = 4350, queue = 6738, heur = -7.0, depth = 7
iter = 4351, queue = 6738, heur = -7.0, depth = 7
iter = 4352, queue = 6741, heur = -7.0, depth = 7
iter = 4353, queue = 6744, heur = -7.0, depth = 7
iter = 4354, queue = 6745, heur = -7.0, depth = 7
iter = 4355, queue = 6748, heur = -7.0, depth = 7
iter = 4356, queue = 6749, heur = -7.0, depth = 7
iter = 4357, queue = 6751, heur = -7.0, depth = 7
iter = 4358, queue = 6754, heur = -7.0, depth = 7
iter = 4359, queue = 6755, heur = -7.0, depth = 7
iter = 4360, queue = 6756, heur = -7.0, depth = 7
iter = 4361, queue = 6757, heur = -7.0, depth = 7
iter = 4362, queue = 6757, heur = -7.0, depth = 7
iter = 4363, queue = 6760, heur = -7.0, depth = 7
iter = 4364, queue = 6763, heur = -7.0, depth = 7
iter = 4365, queue = 6764, heur = -7.0, depth = 7
iter = 4366, queue = 6767, heur = -7.0, depth = 7
iter = 4367, queue = 6769, heur = -7.0, depth = 7
iter = 4368, queue = 6768, heur = -7.0, depth = 7
```

```
iter = 4369, queue = 6771, heur = -7.0, depth = 7
iter = 4370, queue = 6772, heur = -7.0, depth = 7
iter = 4371, queue = 6773, heur = -7.0, depth = 7
iter = 4372, queue = 6772, heur = -7.0, depth = 7
iter = 4373, queue = 6775, heur = -7.0, depth = 7
iter = 4374, queue = 6778, heur = -7.0, depth = 7
iter = 4375, queue = 6779, heur = -7.0, depth = 7
iter = 4376, queue = 6782, heur = -7.0, depth = 7
iter = 4377, queue = 6783, heur = -7.0, depth = 7
iter = 4378, queue = 6782, heur = -7.0, depth = 7
iter = 4379, queue = 6783, heur = -7.0, depth = 7
iter = 4380, queue = 6786, heur = -7.0, depth = 7
iter = 4381, queue = 6789, heur = -7.0, depth = 7
iter = 4382, queue = 6788, heur = -7.0, depth = 7
iter = 4383, queue = 6789, heur = -7.0, depth = 7
iter = 4384, queue = 6792, heur = -7.0, depth = 7
iter = 4385, queue = 6793, heur = -7.0, depth = 7
iter = 4386, queue = 6796, heur = -7.0, depth = 7
iter = 4387, queue = 6797, heur = -7.0, depth = 7
iter = 4388, queue = 6798, heur = -7.0, depth = 7
iter = 4389, queue = 6799, heur = -7.0, depth = 7
iter = 4390, queue = 6802, heur = -7.0, depth = 7
iter = 4391, queue = 6803, heur = -7.0, depth = 7
iter = 4392, queue = 6806, heur = -7.0, depth = 7
iter = 4393, queue = 6809, heur = -7.0, depth = 7
iter = 4394, queue = 6812, heur = -7.0, depth = 7
iter = 4395, queue = 6814, heur = -7.0, depth = 7
iter = 4396, queue = 6817, heur = -7.0, depth = 7
iter = 4397, queue = 6819, heur = -7.0, depth = 7
iter = 4398, queue = 6820, heur = -7.0, depth = 7
iter = 4399, queue = 6823, heur = -7.0, depth = 7
iter = 4400, queue = 6825, heur = -7.0, depth = 7
iter = 4401, queue = 6826, heur = -7.0, depth = 7
iter = 4402, queue = 6827, heur = -7.0, depth = 7
iter = 4403, queue = 6830, heur = -7.0, depth = 7
iter = 4404, queue = 6831, heur = -7.0, depth = 7
iter = 4405, queue = 6831, heur = -7.0, depth = 7
iter = 4406, queue = 6832, heur = -7.0, depth = 7
iter = 4407, queue = 6835, heur = -7.0, depth = 7
iter = 4408, queue = 6838, heur = -7.0, depth = 7
iter = 4409, queue = 6839, heur = -7.0, depth = 7
iter = 4410, queue = 6840, heur = -7.0, depth = 7
iter = 4411, queue = 6841, heur = -7.0, depth = 7
iter = 4412, queue = 6843, heur = -7.0, depth = 7
iter = 4413, queue = 6843, heur = -7.0, depth = 7
iter = 4414, queue = 6846, heur = -7.0, depth = 7
iter = 4415, queue = 6849, heur = -7.0, depth = 7
iter = 4416, queue = 6852, heur = -7.0, depth = 7
iter = 4417, queue = 6853, heur = -7.0, depth = 7
iter = 4418, queue = 6854, heur = -7.0, depth = 7
iter = 4419, queue = 6857, heur = -7.0, depth = 7
iter = 4420, queue = 6859, heur = -7.0, depth = 7
iter = 4421, queue = 6862, heur = -7.0, depth = 7
iter = 4422, queue = 6862, heur = -7.0, depth = 7
iter = 4423, queue = 6865, heur = -7.0, depth = 7
iter = 4424, queue = 6867, heur = -7.0, depth = 7
iter = 4425, queue = 6868, heur = -7.0, depth = 7
iter = 4426, queue = 6871, heur = -7.0, depth = 7
iter = 4427, queue = 6870, heur = -7.0, depth = 7
```

```
iter = 4428, queue = 6871, heur = -7.0, depth = 7
iter = 4429, queue = 6874, heur = -7.0, depth = 7
iter = 4430, queue = 6873, heur = -7.0, depth = 7
iter = 4431, queue = 6874, heur = -7.0, depth = 7
iter = 4432, queue = 6875, heur = -7.0, depth = 7
iter = 4433, queue = 6878, heur = -7.0, depth = 7
iter = 4434, queue = 6879, heur = -7.0, depth = 7
iter = 4435, queue = 6879, heur = -7.0, depth = 7
iter = 4436, queue = 6880, heur = -7.0, depth = 7
iter = 4437, queue = 6881, heur = -7.0, depth = 7
iter = 4438, queue = 6882, heur = -7.0, depth = 7
iter = 4439, queue = 6883, heur = -7.0, depth = 7
iter = 4440, queue = 6882, heur = -7.0, depth = 7
iter = 4441, queue = 6885, heur = -7.0, depth = 7
iter = 4442, queue = 6888, heur = -7.0, depth = 7
iter = 4443, queue = 6891, heur = -7.0, depth = 7
iter = 4444, queue = 6894, heur = -7.0, depth = 7
iter = 4445, queue = 6895, heur = -7.0, depth = 7
iter = 4446, queue = 6896, heur = -7.0, depth = 7
iter = 4447, queue = 6897, heur = -7.0, depth = 7
iter = 4448, queue = 6897, heur = -7.0, depth = 7
iter = 4449, queue = 6898, heur = -7.0, depth = 7
iter = 4450, queue = 6901, heur = -7.0, depth = 7
iter = 4451, queue = 6902, heur = -7.0, depth = 7
iter = 4452, queue = 6903, heur = -7.0, depth = 7
iter = 4453, queue = 6902, heur = -7.0, depth = 7
iter = 4454, queue = 6902, heur = -7.0, depth = 7
iter = 4455, queue = 6905, heur = -7.0, depth = 7
iter = 4456, queue = 6906, heur = -7.0, depth = 7
iter = 4457, queue = 6907, heur = -7.0, depth = 7
iter = 4458, queue = 6908, heur = -7.0, depth = 7
iter = 4459, queue = 6911, heur = -7.0, depth = 7
iter = 4460, queue = 6914, heur = -7.0, depth = 7
iter = 4461, queue = 6915, heur = -7.0, depth = 7
iter = 4462, queue = 6917, heur = -7.0, depth = 7
iter = 4463, queue = 6919, heur = -7.0, depth = 7
iter = 4464, queue = 6921, heur = -7.0, depth = 7
iter = 4465, queue = 6920, heur = -7.0, depth = 7
iter = 4466, queue = 6921, heur = -7.0, depth = 7
iter = 4467, queue = 6922, heur = -7.0, depth = 7
iter = 4468, queue = 6923, heur = -7.0, depth = 7
iter = 4469, queue = 6926, heur = -7.0, depth = 7
iter = 4470, queue = 6927, heur = -7.0, depth = 7
iter = 4471, queue = 6928, heur = -7.0, depth = 7
iter = 4472, queue = 6928, heur = -7.0, depth = 7
iter = 4473, queue = 6931, heur = -7.0, depth = 7
iter = 4474, queue = 6932, heur = -7.0, depth = 7
iter = 4475, queue = 6932, heur = -7.0, depth = 7
iter = 4476, queue = 6935, heur = -7.0, depth = 7
iter = 4477, queue = 6936, heur = -7.0, depth = 7
iter = 4478, queue = 6939, heur = -7.0, depth = 7
iter = 4479, queue = 6941, heur = -7.0, depth = 7
iter = 4480, queue = 6942, heur = -7.0, depth = 7
iter = 4481, queue = 6943, heur = -7.0, depth = 7
iter = 4482, queue = 6944, heur = -7.0, depth = 7
iter = 4483, queue = 6945, heur = -7.0, depth = 7
iter = 4484, queue = 6948, heur = -7.0, depth = 7
iter = 4485, queue = 6950, heur = -7.0, depth = 7
iter = 4486, queue = 6953, heur = -7.0, depth = 7
```

```
iter = 4487, queue = 6954, heur = -7.0, depth = 7
iter = 4488, queue = 6957, heur = -7.0, depth = 7
iter = 4489, queue = 6960, heur = -7.0, depth = 7
iter = 4490, queue = 6960, heur = -7.0, depth = 7
iter = 4491, queue = 6963, heur = -7.0, depth = 7
iter = 4492, queue = 6964, heur = -7.0, depth = 7
iter = 4493, queue = 6965, heur = -7.0, depth = 7
iter = 4494, queue = 6966, heur = -7.0, depth = 7
iter = 4495, queue = 6967, heur = -7.0, depth = 7
iter = 4496, queue = 6970, heur = -7.0, depth = 7
iter = 4497, queue = 6969, heur = -7.0, depth = 7
iter = 4498, queue = 6968, heur = -7.0, depth = 7
iter = 4499, queue = 6969, heur = -7.0, depth = 7
iter = 4500, queue = 6969, heur = -7.0, depth = 7
iter = 4501, queue = 6970, heur = -7.0, depth = 7
iter = 4502, queue = 6970, heur = -7.0, depth = 7
iter = 4503, queue = 6971, heur = -7.0, depth = 7
iter = 4504, queue = 6972, heur = -7.0, depth = 7
iter = 4505, queue = 6973, heur = -7.0, depth = 7
iter = 4506, queue = 6974, heur = -7.0, depth = 7
iter = 4507, queue = 6975, heur = -7.0, depth = 7
iter = 4508, queue = 6977, heur = -7.0, depth = 7
iter = 4509, queue = 6980, heur = -7.0, depth = 7
iter = 4510, queue = 6981, heur = -7.0, depth = 7
iter = 4511, queue = 6982, heur = -7.0, depth = 7
iter = 4512, queue = 6985, heur = -7.0, depth = 7
iter = 4513, queue = 6988, heur = -7.0, depth = 7
iter = 4514, queue = 6990, heur = -7.0, depth = 7
iter = 4515, queue = 6989, heur = -7.0, depth = 7
iter = 4516, queue = 6992, heur = -7.0, depth = 7
iter = 4517, queue = 6991, heur = -7.0, depth = 7
iter = 4518, queue = 6992, heur = -7.0, depth = 7
iter = 4519, queue = 6993, heur = -7.0, depth = 7
iter = 4520, queue = 6994, heur = -7.0, depth = 7
iter = 4521, queue = 6997, heur = -7.0, depth = 7
iter = 4522, queue = 6998, heur = -7.0, depth = 7
iter = 4523, queue = 6999, heur = -7.0, depth = 7
iter = 4524, queue = 6999, heur = -7.0, depth = 7
iter = 4525, queue = 7000, heur = -7.0, depth = 7
iter = 4526, queue = 7001, heur = -7.0, depth = 7
iter = 4527, queue = 7004, heur = -7.0, depth = 7
iter = 4528, queue = 7005, heur = -7.0, depth = 7
iter = 4529, queue = 7006, heur = -7.0, depth = 7
iter = 4530, queue = 7009, heur = -7.0, depth = 7
iter = 4531, queue = 7010, heur = -7.0, depth = 7
iter = 4532, queue = 7013, heur = -7.0, depth = 7
iter = 4533, queue = 7014, heur = -7.0, depth = 7
iter = 4534, queue = 7014, heur = -7.0, depth = 7
iter = 4535, queue = 7013, heur = -7.0, depth = 7
iter = 4536, queue = 7016, heur = -7.0, depth = 7
iter = 4537, queue = 7018, heur = -7.0, depth = 7
iter = 4538, queue = 7019, heur = -7.0, depth = 7
iter = 4539, queue = 7018, heur = -7.0, depth = 7
iter = 4540, queue = 7019, heur = -7.0, depth = 7
iter = 4541, queue = 7022, heur = -7.0, depth = 7
iter = 4542, queue = 7025, heur = -7.0, depth = 7
iter = 4543, queue = 7026, heur = -7.0, depth = 7
iter = 4544, queue = 7027, heur = -7.0, depth = 7
iter = 4545, queue = 7027, heur = -7.0, depth = 7
```

```
iter = 4546, queue = 7028, heur = -7.0, depth = 7
iter = 4547, queue = 7029, heur = -7.0, depth = 7
iter = 4548, queue = 7028, heur = -7.0, depth = 7
iter = 4549, queue = 7029, heur = -7.0, depth = 7
iter = 4550, queue = 7030, heur = -7.0, depth = 7
iter = 4551, queue = 7033, heur = -7.0, depth = 7
iter = 4552, queue = 7036, heur = -7.0, depth = 7
iter = 4553, queue = 7037, heur = -7.0, depth = 7
iter = 4554, queue = 7039, heur = -7.0, depth = 7
iter = 4555, queue = 7040, heur = -7.0, depth = 7
iter = 4556, queue = 7039, heur = -7.0, depth = 7
iter = 4557, queue = 7040, heur = -7.0, depth = 7
iter = 4558, queue = 7041, heur = -7.0, depth = 7
iter = 4559, queue = 7042, heur = -7.0, depth = 7
iter = 4560, queue = 7043, heur = -7.0, depth = 7
iter = 4561, queue = 7044, heur = -7.0, depth = 7
iter = 4562, queue = 7045, heur = -7.0, depth = 7
iter = 4563, queue = 7046, heur = -7.0, depth = 7
iter = 4564, queue = 7045, heur = -7.0, depth = 7
iter = 4565, queue = 7047, heur = -7.0, depth = 7
iter = 4566, queue = 7048, heur = -7.0, depth = 7
iter = 4567, queue = 7049, heur = -7.0, depth = 7
iter = 4568, queue = 7049, heur = -7.0, depth = 7
iter = 4569, queue = 7050, heur = -7.0, depth = 7
iter = 4570, queue = 7051, heur = -7.0, depth = 7
iter = 4571, queue = 7052, heur = -7.0, depth = 7
iter = 4572, queue = 7055, heur = -7.0, depth = 7
iter = 4573, queue = 7057, heur = -7.0, depth = 7
iter = 4574, queue = 7058, heur = -7.0, depth = 7
iter = 4575, queue = 7059, heur = -7.0, depth = 7
iter = 4576, queue = 7060, heur = -7.0, depth = 7
iter = 4577, queue = 7063, heur = -7.0, depth = 7
iter = 4578, queue = 7064, heur = -7.0, depth = 7
iter = 4579, queue = 7065, heur = -7.0, depth = 7
iter = 4580, queue = 7068, heur = -7.0, depth = 7
iter = 4581, queue = 7071, heur = -7.0, depth = 7
iter = 4582, queue = 7074, heur = -7.0, depth = 7
iter = 4583, queue = 7075, heur = -7.0, depth = 7
iter = 4584, queue = 7077, heur = -7.0, depth = 7
iter = 4585, queue = 7080, heur = -7.0, depth = 7
iter = 4586, queue = 7081, heur = -7.0, depth = 7
iter = 4587, queue = 7082, heur = -7.0, depth = 7
iter = 4588, queue = 7085, heur = -7.0, depth = 7
iter = 4589, queue = 7086, heur = -7.0, depth = 7
iter = 4590, queue = 7088, heur = -7.0, depth = 7
iter = 4591, queue = 7087, heur = -7.0, depth = 7
iter = 4592, queue = 7090, heur = -7.0, depth = 7
iter = 4593, queue = 7091, heur = -7.0, depth = 7
iter = 4594, queue = 7094, heur = -7.0, depth = 7
iter = 4595, queue = 7097, heur = -7.0, depth = 7
iter = 4596, queue = 7098, heur = -7.0, depth = 7
iter = 4597, queue = 7101, heur = -7.0, depth = 7
iter = 4598, queue = 7104, heur = -7.0, depth = 7
iter = 4599, queue = 7106, heur = -7.0, depth = 7
iter = 4600, queue = 7106, heur = -7.0, depth = 7
iter = 4601, queue = 7107, heur = -7.0, depth = 7
iter = 4602, queue = 7110, heur = -7.0, depth = 7
iter = 4603, queue = 7111, heur = -7.0, depth = 7
iter = 4604, queue = 7112, heur = -7.0, depth = 7
```

```
iter = 4605, queue = 7115, heur = -7.0, depth = 7
iter = 4606, queue = 7117, heur = -7.0, depth = 7
iter = 4607, queue = 7116, heur = -7.0, depth = 7
iter = 4608, queue = 7117, heur = -7.0, depth = 7
iter = 4609, queue = 7116, heur = -7.0, depth = 7
iter = 4610, queue = 7119, heur = -7.0, depth = 8
iter = 4611, queue = 7122, heur = -7.0, depth = 7
iter = 4612, queue = 7125, heur = -7.0, depth = 7
iter = 4613, queue = 7126, heur = -7.0, depth = 7
iter = 4614, queue = 7129, heur = -7.0, depth = 7
iter = 4615, queue = 7130, heur = -7.0, depth = 7
iter = 4616, queue = 7130, heur = -7.0, depth = 7
iter = 4617, queue = 7131, heur = -7.0, depth = 7
iter = 4618, queue = 7132, heur = -7.0, depth = 7
iter = 4619, queue = 7133, heur = -7.0, depth = 7
iter = 4620, queue = 7135, heur = -7.0, depth = 7
iter = 4621, queue = 7138, heur = -7.0, depth = 8
iter = 4622, queue = 7140, heur = -7.0, depth = 8
iter = 4623, queue = 7141, heur = -7.0, depth = 7
iter = 4624, queue = 7140, heur = -7.0, depth = 7
iter = 4625, queue = 7141, heur = -7.0, depth = 8
iter = 4626, queue = 7142, heur = -7.0, depth = 7
iter = 4627, queue = 7143, heur = -7.0, depth = 7
iter = 4628, queue = 7144, heur = -7.0, depth = 7
iter = 4629, queue = 7146, heur = -7.0, depth = 7
iter = 4630, queue = 7147, heur = -7.0, depth = 7
iter = 4631, queue = 7148, heur = -7.0, depth = 7
iter = 4632, queue = 7147, heur = -7.0, depth = 7
iter = 4633, queue = 7147, heur = -7.0, depth = 7
iter = 4634, queue = 7147, heur = -7.0, depth = 7
iter = 4635, queue = 7150, heur = -7.0, depth = 7
iter = 4636, queue = 7153, heur = -7.0, depth = 7
iter = 4637, queue = 7154, heur = -7.0, depth = 7
iter = 4638, queue = 7156, heur = -7.0, depth = 7
iter = 4639, queue = 7159, heur = -7.0, depth = 7
iter = 4640, queue = 7160, heur = -7.0, depth = 7
iter = 4641, queue = 7163, heur = -7.0, depth = 7
iter = 4642, queue = 7164, heur = -7.0, depth = 7
iter = 4643, queue = 7165, heur = -7.0, depth = 7
iter = 4644, queue = 7166, heur = -7.0, depth = 8
iter = 4645, queue = 7167, heur = -7.0, depth = 7
iter = 4646, queue = 7168, heur = -7.0, depth = 7
iter = 4647, queue = 7169, heur = -7.0, depth = 7
iter = 4648, queue = 7170, heur = -7.0, depth = 7
iter = 4649, queue = 7173, heur = -7.0, depth = 7
iter = 4650, queue = 7174, heur = -7.0, depth = 7
iter = 4651, queue = 7175, heur = -7.0, depth = 7
iter = 4652, queue = 7176, heur = -7.0, depth = 9
iter = 4653, queue = 7177, heur = -7.0, depth = 7
iter = 4654, queue = 7176, heur = -7.0, depth = 7
iter = 4655, queue = 7177, heur = -7.0, depth = 7
iter = 4656, queue = 7177, heur = -7.0, depth = 7
iter = 4657, queue = 7179, heur = -7.0, depth = 7
iter = 4658, queue = 7180, heur = -7.0, depth = 7
iter = 4659, queue = 7183, heur = -7.0, depth = 7
iter = 4660, queue = 7184, heur = -7.0, depth = 7
iter = 4661, queue = 7185, heur = -7.0, depth = 7
iter = 4662, queue = 7186, heur = -7.0, depth = 7
iter = 4663, queue = 7187, heur = -7.0, depth = 7
```

```
iter = 4664, queue = 7190, heur = -7.0, depth = 7
iter = 4665, queue = 7192, heur = -7.0, depth = 7
iter = 4666, queue = 7193, heur = -7.0, depth = 7
iter = 4667, queue = 7194, heur = -7.0, depth = 7
iter = 4668, queue = 7197, heur = -7.0, depth = 7
iter = 4669, queue = 7198, heur = -7.0, depth = 7
iter = 4670, queue = 7201, heur = -7.0, depth = 7
iter = 4671, queue = 7202, heur = -7.0, depth = 7
iter = 4672, queue = 7205, heur = -7.0, depth = 7
iter = 4673, queue = 7206, heur = -7.0, depth = 7
iter = 4674, queue = 7207, heur = -7.0, depth = 7
iter = 4675, queue = 7208, heur = -7.0, depth = 10
iter = 4676, queue = 7209, heur = -7.0, depth = 7
iter = 4677, queue = 7209, heur = -7.0, depth = 7
iter = 4678, queue = 7210, heur = -7.0, depth = 7
iter = 4679, queue = 7211, heur = -7.0, depth = 7
iter = 4680, queue = 7212, heur = -7.0, depth = 7
iter = 4681, queue = 7213, heur = -7.0, depth = 7
iter = 4682, queue = 7216, heur = -7.0, depth = 7
iter = 4683, queue = 7216, heur = -7.0, depth = 7
iter = 4684, queue = 7216, heur = -7.0, depth = 7
iter = 4685, queue = 7217, heur = -7.0, depth = 8
iter = 4686, queue = 7218, heur = -7.0, depth = 7
iter = 4687, queue = 7221, heur = -7.0, depth = 7
iter = 4688, queue = 7221, heur = -7.0, depth = 7
iter = 4689, queue = 7222, heur = -7.0, depth = 7
iter = 4690, queue = 7225, heur = -7.0, depth = 7
iter = 4691, queue = 7226, heur = -7.0, depth = 7
iter = 4692, queue = 7227, heur = -7.0, depth = 7
iter = 4693, queue = 7230, heur = -7.0, depth = 7
iter = 4694, queue = 7232, heur = -7.0, depth = 7
iter = 4695, queue = 7233, heur = -7.0, depth = 7
iter = 4696, queue = 7234, heur = -7.0, depth = 7
iter = 4697, queue = 7237, heur = -7.0, depth = 7
iter = 4698, queue = 7236, heur = -7.0, depth = 7
iter = 4699, queue = 7237, heur = -7.0, depth = 7
iter = 4700, queue = 7240, heur = -7.0, depth = 7
iter = 4701, queue = 7240, heur = -7.0, depth = 7
iter = 4702, queue = 7241, heur = -7.0, depth = 7
iter = 4703, queue = 7242, heur = -7.0, depth = 7
iter = 4704, queue = 7243, heur = -7.0, depth = 7
iter = 4705, queue = 7244, heur = -7.0, depth = 7
iter = 4706, queue = 7245, heur = -7.0, depth = 7
iter = 4707, queue = 7248, heur = -7.0, depth = 7
iter = 4708, queue = 7251, heur = -7.0, depth = 7
iter = 4709, queue = 7252, heur = -7.0, depth = 7
iter = 4710, queue = 7255, heur = -7.0, depth = 7
iter = 4711, queue = 7258, heur = -7.0, depth = 7
iter = 4712, queue = 7261, heur = -7.0, depth = 7
iter = 4713, queue = 7264, heur = -7.0, depth = 7
iter = 4714, queue = 7267, heur = -7.0, depth = 7
iter = 4715, queue = 7268, heur = -7.0, depth = 7
iter = 4716, queue = 7271, heur = -7.0, depth = 7
iter = 4717, queue = 7272, heur = -7.0, depth = 7
iter = 4718, queue = 7273, heur = -7.0, depth = 7
iter = 4719, queue = 7274, heur = -7.0, depth = 7
iter = 4720, queue = 7275, heur = -7.0, depth = 7
iter = 4721, queue = 7276, heur = -7.0, depth = 7
iter = 4722, queue = 7279, heur = -7.0, depth = 7
```

```
iter = 4723, queue = 7282, heur = -7.0, depth = 7
iter = 4724, queue = 7285, heur = -7.0, depth = 7
iter = 4725, queue = 7285, heur = -7.0, depth = 7
iter = 4726, queue = 7286, heur = -7.0, depth = 7
iter = 4727, queue = 7287, heur = -7.0, depth = 7
iter = 4728, queue = 7288, heur = -7.0, depth = 7
iter = 4729, queue = 7289, heur = -7.0, depth = 7
iter = 4730, queue = 7292, heur = -7.0, depth = 7
iter = 4731, queue = 7292, heur = -7.0, depth = 7
iter = 4732, queue = 7295, heur = -7.0, depth = 7
iter = 4733, queue = 7294, heur = -7.0, depth = 7
iter = 4734, queue = 7297, heur = -7.0, depth = 7
iter = 4735, queue = 7298, heur = -7.0, depth = 7
iter = 4736, queue = 7301, heur = -7.0, depth = 7
iter = 4737, queue = 7300, heur = -7.0, depth = 7
iter = 4738, queue = 7301, heur = -7.0, depth = 7
iter = 4739, queue = 7304, heur = -7.0, depth = 7
iter = 4740, queue = 7303, heur = -7.0, depth = 7
iter = 4741, queue = 7304, heur = -7.0, depth = 7
iter = 4742, queue = 7307, heur = -7.0, depth = 7
iter = 4743, queue = 7307, heur = -7.0, depth = 7
iter = 4744, queue = 7310, heur = -7.0, depth = 7
iter = 4745, queue = 7313, heur = -7.0, depth = 7
iter = 4746, queue = 7314, heur = -7.0, depth = 7
iter = 4747, queue = 7315, heur = -7.0, depth = 7
iter = 4748, queue = 7316, heur = -7.0, depth = 7
iter = 4749, queue = 7317, heur = -7.0, depth = 7
iter = 4750, queue = 7318, heur = -7.0, depth = 7
iter = 4751, queue = 7319, heur = -7.0, depth = 7
iter = 4752, queue = 7319, heur = -7.0, depth = 7
iter = 4753, queue = 7319, heur = -7.0, depth = 7
iter = 4754, queue = 7322, heur = -7.0, depth = 7
iter = 4755, queue = 7323, heur = -7.0, depth = 7
iter = 4756, queue = 7324, heur = -7.0, depth = 7
iter = 4757, queue = 7326, heur = -7.0, depth = 7
iter = 4758, queue = 7327, heur = -7.0, depth = 7
iter = 4759, queue = 7330, heur = -7.0, depth = 7
iter = 4760, queue = 7329, heur = -7.0, depth = 7
iter = 4761, queue = 7330, heur = -7.0, depth = 7
iter = 4762, queue = 7331, heur = -7.0, depth = 7
iter = 4763, queue = 7332, heur = -7.0, depth = 7
iter = 4764, queue = 7333, heur = -7.0, depth = 7
iter = 4765, queue = 7334, heur = -7.0, depth = 7
iter = 4766, queue = 7336, heur = -7.0, depth = 7
iter = 4767, queue = 7339, heur = -7.0, depth = 7
iter = 4768, queue = 7342, heur = -7.0, depth = 7
iter = 4769, queue = 7343, heur = -7.0, depth = 7
iter = 4770, queue = 7344, heur = -7.0, depth = 7
iter = 4771, queue = 7345, heur = -7.0, depth = 9
iter = 4772, queue = 7345, heur = -7.0, depth = 7
iter = 4773, queue = 7347, heur = -7.0, depth = 7
iter = 4774, queue = 7348, heur = -7.0, depth = 7
iter = 4775, queue = 7351, heur = -7.0, depth = 7
iter = 4776, queue = 7352, heur = -7.0, depth = 7
iter = 4777, queue = 7353, heur = -7.0, depth = 7
iter = 4778, queue = 7353, heur = -7.0, depth = 8
iter = 4779, queue = 7354, heur = -7.0, depth = 7
iter = 4780, queue = 7357, heur = -7.0, depth = 7
iter = 4781, queue = 7358, heur = -7.0, depth = 7
```

```
iter = 4782, queue = 7358, heur = -7.0, depth = 7
iter = 4783, queue = 7360, heur = -7.0, depth = 7
iter = 4784, queue = 7363, heur = -7.0, depth = 7
iter = 4785, queue = 7366, heur = -7.0, depth = 7
iter = 4786, queue = 7369, heur = -7.0, depth = 7
iter = 4787, queue = 7369, heur = -7.0, depth = 7
iter = 4788, queue = 7372, heur = -7.0, depth = 7
iter = 4789, queue = 7375, heur = -7.0, depth = 8
iter = 4790, queue = 7376, heur = -7.0, depth = 7
iter = 4791, queue = 7377, heur = -7.0, depth = 7
iter = 4792, queue = 7380, heur = -7.0, depth = 7
iter = 4793, queue = 7381, heur = -7.0, depth = 7
iter = 4794, queue = 7382, heur = -7.0, depth = 7
iter = 4795, queue = 7382, heur = -7.0, depth = 7
iter = 4796, queue = 7383, heur = -7.0, depth = 7
iter = 4797, queue = 7384, heur = -7.0, depth = 7
iter = 4798, queue = 7386, heur = -7.0, depth = 7
iter = 4799, queue = 7387, heur = -7.0, depth = 8
iter = 4800, queue = 7388, heur = -7.0, depth = 7
iter = 4801, queue = 7389, heur = -7.0, depth = 7
iter = 4802, queue = 7390, heur = -7.0, depth = 7
iter = 4803, queue = 7392, heur = -7.0, depth = 7
iter = 4804, queue = 7395, heur = -7.0, depth = 7
iter = 4805, queue = 7396, heur = -7.0, depth = 7
iter = 4806, queue = 7397, heur = -7.0, depth = 7
iter = 4807, queue = 7396, heur = -7.0, depth = 7
iter = 4808, queue = 7397, heur = -7.0, depth = 7
iter = 4809, queue = 7398, heur = -7.0, depth = 8
iter = 4810, queue = 7399, heur = -7.0, depth = 7
iter = 4811, queue = 7400, heur = -7.0, depth = 7
iter = 4812, queue = 7401, heur = -7.0, depth = 8
iter = 4813, queue = 7403, heur = -7.0, depth = 7
iter = 4814, queue = 7404, heur = -7.0, depth = 7
iter = 4815, queue = 7406, heur = -7.0, depth = 7
iter = 4816, queue = 7409, heur = -7.0, depth = 7
iter = 4817, queue = 7412, heur = -7.0, depth = 7
iter = 4818, queue = 7411, heur = -7.0, depth = 7
iter = 4819, queue = 7412, heur = -7.0, depth = 7
iter = 4820, queue = 7413, heur = -7.0, depth = 7
iter = 4821, queue = 7414, heur = -7.0, depth = 7
iter = 4822, queue = 7415, heur = -7.0, depth = 7
iter = 4823, queue = 7416, heur = -7.0, depth = 7
iter = 4824, queue = 7416, heur = -7.0, depth = 7
iter = 4825, queue = 7417, heur = -7.0, depth = 7
iter = 4826, queue = 7418, heur = -7.0, depth = 7
iter = 4827, queue = 7421, heur = -7.0, depth = 7
iter = 4828, queue = 7422, heur = -7.0, depth = 7
iter = 4829, queue = 7424, heur = -7.0, depth = 7
iter = 4830, queue = 7423, heur = -7.0, depth = 7
iter = 4831, queue = 7424, heur = -7.0, depth = 7
iter = 4832, queue = 7427, heur = -7.0, depth = 7
iter = 4833, queue = 7428, heur = -7.0, depth = 7
iter = 4834, queue = 7431, heur = -7.0, depth = 7
iter = 4835, queue = 7432, heur = -7.0, depth = 7
iter = 4836, queue = 7433, heur = -7.0, depth = 7
iter = 4837, queue = 7434, heur = -7.0, depth = 7
iter = 4838, queue = 7435, heur = -7.0, depth = 7
iter = 4839, queue = 7434, heur = -7.0, depth = 7
iter = 4840, queue = 7437, heur = -7.0, depth = 8
```

```
iter = 4841, queue = 7438, heur = -7.0, depth = 7
iter = 4842, queue = 7441, heur = -7.0, depth = 7
iter = 4843, queue = 7442, heur = -7.0, depth = 7
iter = 4844, queue = 7444, heur = -7.0, depth = 7
iter = 4845, queue = 7447, heur = -7.0, depth = 7
iter = 4846, queue = 7450, heur = -7.0, depth = 7
iter = 4847, queue = 7453, heur = -7.0, depth = 7
iter = 4848, queue = 7456, heur = -7.0, depth = 7
iter = 4849, queue = 7455, heur = -7.0, depth = 7
iter = 4850, queue = 7457, heur = -7.0, depth = 7
iter = 4851, queue = 7458, heur = -7.0, depth = 7
iter = 4852, queue = 7459, heur = -7.0, depth = 7
iter = 4853, queue = 7460, heur = -7.0, depth = 7
iter = 4854, queue = 7461, heur = -7.0, depth = 7
iter = 4855, queue = 7462, heur = -7.0, depth = 7
iter = 4856, queue = 7463, heur = -7.0, depth = 7
iter = 4857, queue = 7464, heur = -7.0, depth = 7
iter = 4858, queue = 7467, heur = -7.0, depth = 7
iter = 4859, queue = 7468, heur = -7.0, depth = 7
iter = 4860, queue = 7471, heur = -7.0, depth = 7
iter = 4861, queue = 7471, heur = -7.0, depth = 7
iter = 4862, queue = 7472, heur = -7.0, depth = 7
iter = 4863, queue = 7473, heur = -7.0, depth = 7
iter = 4864, queue = 7475, heur = -7.0, depth = 7
iter = 4865, queue = 7478, heur = -7.0, depth = 7
iter = 4866, queue = 7479, heur = -7.0, depth = 7
iter = 4867, queue = 7480, heur = -7.0, depth = 7
iter = 4868, queue = 7483, heur = -7.0, depth = 8
iter = 4869, queue = 7484, heur = -7.0, depth = 7
iter = 4870, queue = 7485, heur = -7.0, depth = 7
iter = 4871, queue = 7488, heur = -7.0, depth = 7
iter = 4872, queue = 7489, heur = -7.0, depth = 7
iter = 4873, queue = 7489, heur = -7.0, depth = 7
iter = 4874, queue = 7491, heur = -7.0, depth = 7
iter = 4875, queue = 7492, heur = -7.0, depth = 7
iter = 4876, queue = 7495, heur = -7.0, depth = 7
iter = 4877, queue = 7496, heur = -7.0, depth = 7
iter = 4878, queue = 7498, heur = -7.0, depth = 7
iter = 4879, queue = 7497, heur = -7.0, depth = 7
iter = 4880, queue = 7498, heur = -7.0, depth = 7
iter = 4881, queue = 7499, heur = -7.0, depth = 7
iter = 4882, queue = 7500, heur = -7.0, depth = 7
iter = 4883, queue = 7501, heur = -7.0, depth = 7
iter = 4884, queue = 7502, heur = -7.0, depth = 7
iter = 4885, queue = 7503, heur = -7.0, depth = 7
iter = 4886, queue = 7505, heur = -7.0, depth = 7
iter = 4887, queue = 7505, heur = -7.0, depth = 7
iter = 4888, queue = 7506, heur = -7.0, depth = 7
iter = 4889, queue = 7507, heur = -7.0, depth = 7
iter = 4890, queue = 7510, heur = -7.0, depth = 7
iter = 4891, queue = 7511, heur = -7.0, depth = 7
iter = 4892, queue = 7512, heur = -7.0, depth = 7
iter = 4893, queue = 7513, heur = -7.0, depth = 7
iter = 4894, queue = 7514, heur = -7.0, depth = 7
iter = 4895, queue = 7515, heur = -7.0, depth = 7
iter = 4896, queue = 7514, heur = -7.0, depth = 7
iter = 4897, queue = 7517, heur = -7.0, depth = 7
iter = 4898, queue = 7518, heur = -7.0, depth = 7
iter = 4899, queue = 7518, heur = -7.0, depth = 7
```

```
iter = 4900, queue = 7519, heur = -7.0, depth = 7
iter = 4901, queue = 7520, heur = -7.0, depth = 7
iter = 4902, queue = 7520, heur = -7.0, depth = 7
iter = 4903, queue = 7521, heur = -7.0, depth = 7
iter = 4904, queue = 7522, heur = -7.0, depth = 7
iter = 4905, queue = 7523, heur = -7.0, depth = 7
iter = 4906, queue = 7524, heur = -7.0, depth = 7
iter = 4907, queue = 7525, heur = -7.0, depth = 7
iter = 4908, queue = 7524, heur = -7.0, depth = 7
iter = 4909, queue = 7526, heur = -7.0, depth = 7
iter = 4910, queue = 7529, heur = -7.0, depth = 7
iter = 4911, queue = 7530, heur = -7.0, depth = 7
iter = 4912, queue = 7531, heur = -7.0, depth = 7
iter = 4913, queue = 7532, heur = -7.0, depth = 7
iter = 4914, queue = 7534, heur = -7.0, depth = 7
iter = 4915, queue = 7534, heur = -7.0, depth = 7
iter = 4916, queue = 7535, heur = -7.0, depth = 7
iter = 4917, queue = 7536, heur = -7.0, depth = 7
iter = 4918, queue = 7538, heur = -7.0, depth = 7
iter = 4919, queue = 7540, heur = -7.0, depth = 7
iter = 4920, queue = 7540, heur = -7.0, depth = 7
iter = 4921, queue = 7541, heur = -7.0, depth = 7
iter = 4922, queue = 7542, heur = -7.0, depth = 7
iter = 4923, queue = 7543, heur = -7.0, depth = 7
iter = 4924, queue = 7544, heur = -7.0, depth = 7
iter = 4925, queue = 7546, heur = -7.0, depth = 7
iter = 4926, queue = 7548, heur = -7.0, depth = 7
iter = 4927, queue = 7548, heur = -7.0, depth = 7
iter = 4928, queue = 7547, heur = -7.0, depth = 7
iter = 4929, queue = 7548, heur = -7.0, depth = 7
iter = 4930, queue = 7547, heur = -7.0, depth = 7
iter = 4931, queue = 7548, heur = -7.0, depth = 7
iter = 4932, queue = 7549, heur = -7.0, depth = 7
iter = 4933, queue = 7548, heur = -7.0, depth = 7
iter = 4934, queue = 7551, heur = -7.0, depth = 7
iter = 4935, queue = 7552, heur = -7.0, depth = 7
iter = 4936, queue = 7553, heur = -7.0, depth = 7
iter = 4937, queue = 7556, heur = -7.0, depth = 7
iter = 4938, queue = 7557, heur = -7.0, depth = 7
iter = 4939, queue = 7559, heur = -7.0, depth = 7
iter = 4940, queue = 7560, heur = -7.0, depth = 7
iter = 4941, queue = 7561, heur = -7.0, depth = 7
iter = 4942, queue = 7561, heur = -7.0, depth = 7
iter = 4943, queue = 7563, heur = -7.0, depth = 7
iter = 4944, queue = 7563, heur = -7.0, depth = 7
iter = 4945, queue = 7563, heur = -7.0, depth = 7
iter = 4946, queue = 7564, heur = -7.0, depth = 7
iter = 4947, queue = 7565, heur = -7.0, depth = 7
iter = 4948, queue = 7568, heur = -7.0, depth = 7
iter = 4949, queue = 7571, heur = -7.0, depth = 7
iter = 4950, queue = 7571, heur = -7.0, depth = 7
iter = 4951, queue = 7572, heur = -7.0, depth = 7
iter = 4952, queue = 7573, heur = -7.0, depth = 7
iter = 4953, queue = 7574, heur = -7.0, depth = 7
iter = 4954, queue = 7577, heur = -7.0, depth = 7
iter = 4955, queue = 7580, heur = -7.0, depth = 7
iter = 4956, queue = 7583, heur = -7.0, depth = 7
iter = 4957, queue = 7586, heur = -7.0, depth = 7
iter = 4958, queue = 7589, heur = -7.0, depth = 7
```

```
iter = 4959, queue = 7592, heur = -7.0, depth = 7
iter = 4960, queue = 7593, heur = -7.0, depth = 8
iter = 4961, queue = 7594, heur = -7.0, depth = 7
iter = 4962, queue = 7595, heur = -7.0, depth = 7
iter = 4963, queue = 7596, heur = -7.0, depth = 7
iter = 4964, queue = 7596, heur = -7.0, depth = 7
iter = 4965, queue = 7597, heur = -7.0, depth = 7
iter = 4966, queue = 7597, heur = -7.0, depth = 7
iter = 4967, queue = 7598, heur = -7.0, depth = 7
iter = 4968, queue = 7599, heur = -7.0, depth = 7
iter = 4969, queue = 7601, heur = -7.0, depth = 7
iter = 4970, queue = 7604, heur = -7.0, depth = 7
iter = 4971, queue = 7605, heur = -7.0, depth = 7
iter = 4972, queue = 7606, heur = -7.0, depth = 7
iter = 4973, queue = 7607, heur = -7.0, depth = 7
iter = 4974, queue = 7606, heur = -7.0, depth = 7
iter = 4975, queue = 7607, heur = -7.0, depth = 7
iter = 4976, queue = 7608, heur = -7.0, depth = 7
iter = 4977, queue = 7611, heur = -7.0, depth = 7
iter = 4978, queue = 7612, heur = -7.0, depth = 7
iter = 4979, queue = 7615, heur = -7.0, depth = 7
iter = 4980, queue = 7615, heur = -7.0, depth = 7
iter = 4981, queue = 7616, heur = -7.0, depth = 7
iter = 4982, queue = 7619, heur = -7.0, depth = 7
iter = 4983, queue = 7622, heur = -7.0, depth = 7
iter = 4984, queue = 7621, heur = -7.0, depth = 7
iter = 4985, queue = 7622, heur = -7.0, depth = 7
iter = 4986, queue = 7625, heur = -7.0, depth = 7
iter = 4987, queue = 7628, heur = -7.0, depth = 7
iter = 4988, queue = 7631, heur = -7.0, depth = 7
iter = 4989, queue = 7634, heur = -7.0, depth = 7
iter = 4990, queue = 7635, heur = -7.0, depth = 7
iter = 4991, queue = 7638, heur = -7.0, depth = 7
iter = 4992, queue = 7641, heur = -7.0, depth = 9
iter = 4993, queue = 7641, heur = -7.0, depth = 7
iter = 4994, queue = 7640, heur = -7.0, depth = 7
iter = 4995, queue = 7643, heur = -7.0, depth = 7
iter = 4996, queue = 7643, heur = -7.0, depth = 7
iter = 4997, queue = 7644, heur = -7.0, depth = 7
iter = 4998, queue = 7646, heur = -7.0, depth = 7
iter = 4999, queue = 7649, heur = -7.0, depth = 7
iter = 5000, queue = 7650, heur = -7.0, depth = 7
iter = 5001, queue = 7652, heur = -7.0, depth = 7
iter = 5002, queue = 7655, heur = -7.0, depth = 7
iter = 5003, queue = 7656, heur = -7.0, depth = 7
iter = 5004, queue = 7659, heur = -7.0, depth = 7
iter = 5005, queue = 7662, heur = -7.0, depth = 7
iter = 5006, queue = 7665, heur = -7.0, depth = 7
iter = 5007, queue = 7664, heur = -7.0, depth = 7
iter = 5008, queue = 7665, heur = -7.0, depth = 7
iter = 5009, queue = 7667, heur = -7.0, depth = 7
iter = 5010, queue = 7667, heur = -7.0, depth = 7
iter = 5011, queue = 7668, heur = -7.0, depth = 7
iter = 5012, queue = 7669, heur = -7.0, depth = 7
iter = 5013, queue = 7671, heur = -7.0, depth = 7
iter = 5014, queue = 7671, heur = -7.0, depth = 7
iter = 5015, queue = 7672, heur = -7.0, depth = 7
iter = 5016, queue = 7673, heur = -7.0, depth = 7
iter = 5017, queue = 7675, heur = -7.0, depth = 7
```

```
iter = 5018, queue = 7678, heur = -7.0, depth = 7
iter = 5019, queue = 7679, heur = -7.0, depth = 7
iter = 5020, queue = 7680, heur = -7.0, depth = 7
iter = 5021, queue = 7683, heur = -7.0, depth = 7
iter = 5022, queue = 7683, heur = -7.0, depth = 7
iter = 5023, queue = 7682, heur = -7.0, depth = 7
iter = 5024, queue = 7685, heur = -7.0, depth = 7
iter = 5025, queue = 7686, heur = -7.0, depth = 7
iter = 5026, queue = 7689, heur = -7.0, depth = 7
iter = 5027, queue = 7690, heur = -7.0, depth = 7
iter = 5028, queue = 7690, heur = -7.0, depth = 7
iter = 5029, queue = 7689, heur = -7.0, depth = 7
iter = 5030, queue = 7690, heur = -7.0, depth = 7
iter = 5031, queue = 7691, heur = -7.0, depth = 7
iter = 5032, queue = 7694, heur = -7.0, depth = 7
iter = 5033, queue = 7695, heur = -7.0, depth = 7
iter = 5034, queue = 7698, heur = -7.0, depth = 7
iter = 5035, queue = 7701, heur = -7.0, depth = 7
iter = 5036, queue = 7701, heur = -7.0, depth = 7
iter = 5037, queue = 7704, heur = -7.0, depth = 7
iter = 5038, queue = 7705, heur = -7.0, depth = 7
iter = 5039, queue = 7706, heur = -7.0, depth = 7
iter = 5040, queue = 7705, heur = -7.0, depth = 7
iter = 5041, queue = 7707, heur = -7.0, depth = 7
iter = 5042, queue = 7710, heur = -7.0, depth = 7
iter = 5043, queue = 7711, heur = -7.0, depth = 7
iter = 5044, queue = 7713, heur = -7.0, depth = 7
iter = 5045, queue = 7714, heur = -7.0, depth = 7
iter = 5046, queue = 7714, heur = -7.0, depth = 7
iter = 5047, queue = 7715, heur = -7.0, depth = 7
iter = 5048, queue = 7718, heur = -7.0, depth = 7
iter = 5049, queue = 7719, heur = -7.0, depth = 7
iter = 5050, queue = 7718, heur = -7.0, depth = 7
iter = 5051, queue = 7717, heur = -7.0, depth = 7
iter = 5052, queue = 7716, heur = -7.0, depth = 7
iter = 5053, queue = 7717, heur = -7.0, depth = 7
iter = 5054, queue = 7718, heur = -7.0, depth = 7
iter = 5055, queue = 7719, heur = -7.0, depth = 7
iter = 5056, queue = 7722, heur = -7.0, depth = 7
iter = 5057, queue = 7722, heur = -7.0, depth = 7
iter = 5058, queue = 7723, heur = -7.0, depth = 7
iter = 5059, queue = 7726, heur = -7.0, depth = 7
iter = 5060, queue = 7729, heur = -7.0, depth = 7
iter = 5061, queue = 7731, heur = -7.0, depth = 7
iter = 5062, queue = 7734, heur = -7.0, depth = 7
iter = 5063, queue = 7733, heur = -7.0, depth = 7
iter = 5064, queue = 7734, heur = -7.0, depth = 7
iter = 5065, queue = 7735, heur = -7.0, depth = 7
iter = 5066, queue = 7734, heur = -7.0, depth = 7
iter = 5067, queue = 7735, heur = -7.0, depth = 7
iter = 5068, queue = 7736, heur = -7.0, depth = 7
iter = 5069, queue = 7736, heur = -7.0, depth = 7
iter = 5070, queue = 7739, heur = -7.0, depth = 7
iter = 5071, queue = 7740, heur = -7.0, depth = 7
iter = 5072, queue = 7743, heur = -7.0, depth = 7
iter = 5073, queue = 7746, heur = -7.0, depth = 7
iter = 5074, queue = 7747, heur = -7.0, depth = 7
iter = 5075, queue = 7749, heur = -7.0, depth = 7
iter = 5076, queue = 7750, heur = -7.0, depth = 8
```

```
iter = 5077, queue = 7751, heur = -7.0, depth = 7
iter = 5078, queue = 7753, heur = -7.0, depth = 7
iter = 5079, queue = 7754, heur = -7.0, depth = 7
iter = 5080, queue = 7757, heur = -7.0, depth = 7
iter = 5081, queue = 7758, heur = -7.0, depth = 7
iter = 5082, queue = 7759, heur = -7.0, depth = 7
iter = 5083, queue = 7759, heur = -7.0, depth = 7
iter = 5084, queue = 7760, heur = -7.0, depth = 7
iter = 5085, queue = 7761, heur = -7.0, depth = 7
iter = 5086, queue = 7760, heur = -7.0, depth = 7
iter = 5087, queue = 7760, heur = -7.0, depth = 7
iter = 5088, queue = 7761, heur = -7.0, depth = 7
iter = 5089, queue = 7762, heur = -7.0, depth = 7
iter = 5090, queue = 7763, heur = -7.0, depth = 7
iter = 5091, queue = 7764, heur = -7.0, depth = 7
iter = 5092, queue = 7764, heur = -7.0, depth = 8
iter = 5093, queue = 7767, heur = -7.0, depth = 7
iter = 5094, queue = 7768, heur = -7.0, depth = 7
iter = 5095, queue = 7769, heur = -7.0, depth = 9
iter = 5096, queue = 7772, heur = -7.0, depth = 7
iter = 5097, queue = 7775, heur = -7.0, depth = 8
iter = 5098, queue = 7776, heur = -7.0, depth = 10
iter = 5099, queue = 7779, heur = -7.0, depth = 7
iter = 5100, queue = 7782, heur = -7.0, depth = 9
iter = 5101, queue = 7783, heur = -7.0, depth = 11
iter = 5102, queue = 7786, heur = -7.0, depth = 7
iter = 5103, queue = 7787, heur = -7.0, depth = 7
iter = 5104, queue = 7789, heur = -7.0, depth = 7
iter = 5105, queue = 7790, heur = -7.0, depth = 7
iter = 5106, queue = 7789, heur = -7.0, depth = 7
iter = 5107, queue = 7792, heur = -7.0, depth = 7
iter = 5108, queue = 7793, heur = -7.0, depth = 7
iter = 5109, queue = 7794, heur = -7.0, depth = 7
iter = 5110, queue = 7797, heur = -7.0, depth = 7
iter = 5111, queue = 7800, heur = -7.0, depth = 7
iter = 5112, queue = 7802, heur = -7.0, depth = 7
iter = 5113, queue = 7802, heur = -7.0, depth = 7
iter = 5114, queue = 7801, heur = -7.0, depth = 7
iter = 5115, queue = 7801, heur = -7.0, depth = 7
iter = 5116, queue = 7800, heur = -7.0, depth = 7
iter = 5117, queue = 7803, heur = -7.0, depth = 7
iter = 5118, queue = 7804, heur = -7.0, depth = 7
iter = 5119, queue = 7805, heur = -7.0, depth = 7
iter = 5120, queue = 7805, heur = -7.0, depth = 7
iter = 5121, queue = 7806, heur = -7.0, depth = 7
iter = 5122, queue = 7807, heur = -7.0, depth = 7
iter = 5123, queue = 7808, heur = -7.0, depth = 7
iter = 5124, queue = 7809, heur = -7.0, depth = 7
iter = 5125, queue = 7810, heur = -7.0, depth = 7
iter = 5126, queue = 7812, heur = -7.0, depth = 7
iter = 5127, queue = 7814, heur = -7.0, depth = 7
iter = 5128, queue = 7815, heur = -7.0, depth = 7
iter = 5129, queue = 7817, heur = -7.0, depth = 7
iter = 5130, queue = 7818, heur = -7.0, depth = 7
iter = 5131, queue = 7818, heur = -7.0, depth = 7
iter = 5132, queue = 7818, heur = -7.0, depth = 7
iter = 5133, queue = 7819, heur = -7.0, depth = 7
iter = 5134, queue = 7821, heur = -7.0, depth = 7
iter = 5135, queue = 7822, heur = -7.0, depth = 7
```

```
iter = 5136, queue = 7825, heur = -7.0, depth = 7
iter = 5137, queue = 7826, heur = -7.0, depth = 7
iter = 5138, queue = 7826, heur = -7.0, depth = 7
iter = 5139, queue = 7827, heur = -7.0, depth = 9
iter = 5140, queue = 7828, heur = -7.0, depth = 7
iter = 5141, queue = 7828, heur = -7.0, depth = 7
iter = 5142, queue = 7829, heur = -7.0, depth = 7
iter = 5143, queue = 7830, heur = -7.0, depth = 7
iter = 5144, queue = 7830, heur = -7.0, depth = 7
iter = 5145, queue = 7832, heur = -7.0, depth = 7
iter = 5146, queue = 7835, heur = -7.0, depth = 7
iter = 5147, queue = 7836, heur = -7.0, depth = 7
iter = 5148, queue = 7838, heur = -7.0, depth = 7
iter = 5149, queue = 7841, heur = -7.0, depth = 7
iter = 5150, queue = 7842, heur = -7.0, depth = 7
iter = 5151, queue = 7843, heur = -7.0, depth = 7
iter = 5152, queue = 7844, heur = -7.0, depth = 7
iter = 5153, queue = 7845, heur = -7.0, depth = 7
iter = 5154, queue = 7845, heur = -7.0, depth = 7
iter = 5155, queue = 7848, heur = -7.0, depth = 7
iter = 5156, queue = 7851, heur = -7.0, depth = 7
iter = 5157, queue = 7854, heur = -7.0, depth = 7
iter = 5158, queue = 7854, heur = -7.0, depth = 7
iter = 5159, queue = 7857, heur = -7.0, depth = 7
iter = 5160, queue = 7858, heur = -7.0, depth = 7
iter = 5161, queue = 7859, heur = -7.0, depth = 7
iter = 5162, queue = 7859, heur = -7.0, depth = 7
iter = 5163, queue = 7860, heur = -7.0, depth = 7
iter = 5164, queue = 7860, heur = -7.0, depth = 7
iter = 5165, queue = 7860, heur = -7.0, depth = 7
iter = 5166, queue = 7863, heur = -7.0, depth = 7
iter = 5167, queue = 7866, heur = -7.0, depth = 7
iter = 5168, queue = 7867, heur = -7.0, depth = 7
iter = 5169, queue = 7870, heur = -7.0, depth = 7
iter = 5170, queue = 7873, heur = -7.0, depth = 8
iter = 5171, queue = 7876, heur = -7.0, depth = 7
iter = 5172, queue = 7876, heur = -7.0, depth = 7
iter = 5173, queue = 7878, heur = -7.0, depth = 7
iter = 5174, queue = 7879, heur = -7.0, depth = 7
iter = 5175, queue = 7880, heur = -7.0, depth = 7
iter = 5176, queue = 7881, heur = -7.0, depth = 7
iter = 5177, queue = 7882, heur = -7.0, depth = 7
iter = 5178, queue = 7885, heur = -7.0, depth = 7
iter = 5179, queue = 7884, heur = -7.0, depth = 7
iter = 5180, queue = 7885, heur = -7.0, depth = 7
iter = 5181, queue = 7884, heur = -7.0, depth = 7
iter = 5182, queue = 7885, heur = -7.0, depth = 7
iter = 5183, queue = 7886, heur = -7.0, depth = 7
iter = 5184, queue = 7887, heur = -7.0, depth = 7
iter = 5185, queue = 7890, heur = -7.0, depth = 7
iter = 5186, queue = 7891, heur = -7.0, depth = 7
iter = 5187, queue = 7894, heur = -7.0, depth = 7
iter = 5188, queue = 7896, heur = -7.0, depth = 7
iter = 5189, queue = 7897, heur = -7.0, depth = 7
iter = 5190, queue = 7900, heur = -7.0, depth = 7
iter = 5191, queue = 7901, heur = -7.0, depth = 7
iter = 5192, queue = 7904, heur = -7.0, depth = 7
iter = 5193, queue = 7904, heur = -7.0, depth = 7
iter = 5194, queue = 7905, heur = -7.0, depth = 7
```

```
iter = 5195, queue = 7905, heur = -7.0, depth = 7
iter = 5196, queue = 7904, heur = -7.0, depth = 7
iter = 5197, queue = 7907, heur = -7.0, depth = 7
iter = 5198, queue = 7910, heur = -7.0, depth = 7
iter = 5199, queue = 7911, heur = -7.0, depth = 7
iter = 5200, queue = 7914, heur = -7.0, depth = 7
iter = 5201, queue = 7916, heur = -7.0, depth = 7
iter = 5202, queue = 7919, heur = -7.0, depth = 7
iter = 5203, queue = 7922, heur = -7.0, depth = 7
iter = 5204, queue = 7921, heur = -7.0, depth = 7
iter = 5205, queue = 7924, heur = -7.0, depth = 7
iter = 5206, queue = 7926, heur = -7.0, depth = 7
iter = 5207, queue = 7928, heur = -7.0, depth = 7
iter = 5208, queue = 7929, heur = -7.0, depth = 7
iter = 5209, queue = 7930, heur = -7.0, depth = 7
iter = 5210, queue = 7931, heur = -7.0, depth = 7
iter = 5211, queue = 7933, heur = -7.0, depth = 7
iter = 5212, queue = 7936, heur = -7.0, depth = 7
iter = 5213, queue = 7937, heur = -7.0, depth = 7
iter = 5214, queue = 7938, heur = -7.0, depth = 7
iter = 5215, queue = 7939, heur = -7.0, depth = 7
iter = 5216, queue = 7941, heur = -7.0, depth = 7
iter = 5217, queue = 7944, heur = -7.0, depth = 7
iter = 5218, queue = 7943, heur = -7.0, depth = 7
iter = 5219, queue = 7946, heur = -7.0, depth = 7
iter = 5220, queue = 7949, heur = -7.0, depth = 7
iter = 5221, queue = 7950, heur = -7.0, depth = 7
iter = 5222, queue = 7951, heur = -7.0, depth = 7
iter = 5223, queue = 7952, heur = -7.0, depth = 7
iter = 5224, queue = 7955, heur = -7.0, depth = 7
iter = 5225, queue = 7956, heur = -7.0, depth = 8
iter = 5226, queue = 7957, heur = -7.0, depth = 7
iter = 5227, queue = 7959, heur = -7.0, depth = 7
iter = 5228, queue = 7960, heur = -7.0, depth = 9
iter = 5229, queue = 7961, heur = -7.0, depth = 7
iter = 5230, queue = 7964, heur = -7.0, depth = 7
iter = 5231, queue = 7965, heur = -7.0, depth = 10
iter = 5232, queue = 7966, heur = -7.0, depth = 7
iter = 5233, queue = 7966, heur = -7.0, depth = 7
iter = 5234, queue = 7967, heur = -7.0, depth = 7
iter = 5235, queue = 7968, heur = -7.0, depth = 7
iter = 5236, queue = 7969, heur = -7.0, depth = 7
iter = 5237, queue = 7969, heur = -7.0, depth = 7
iter = 5238, queue = 7970, heur = -7.0, depth = 7
iter = 5239, queue = 7969, heur = -7.0, depth = 7
iter = 5240, queue = 7970, heur = -7.0, depth = 7
iter = 5241, queue = 7971, heur = -7.0, depth = 7
iter = 5242, queue = 7972, heur = -7.0, depth = 7
iter = 5243, queue = 7973, heur = -7.0, depth = 7
iter = 5244, queue = 7975, heur = -7.0, depth = 8
iter = 5245, queue = 7976, heur = -7.0, depth = 7
iter = 5246, queue = 7975, heur = -7.0, depth = 7
iter = 5247, queue = 7976, heur = -7.0, depth = 7
iter = 5248, queue = 7977, heur = -7.0, depth = 7
iter = 5249, queue = 7980, heur = -7.0, depth = 7
iter = 5250, queue = 7981, heur = -7.0, depth = 7
iter = 5251, queue = 7982, heur = -7.0, depth = 7
iter = 5252, queue = 7985, heur = -7.0, depth = 7
iter = 5253, queue = 7984, heur = -7.0, depth = 7
```

```
iter = 5254, queue = 7985, heur = -7.0, depth = 8
iter = 5255, queue = 7986, heur = -7.0, depth = 7
iter = 5256, queue = 7987, heur = -7.0, depth = 7
iter = 5257, queue = 7990, heur = -7.0, depth = 7
iter = 5258, queue = 7989, heur = -7.0, depth = 7
iter = 5259, queue = 7990, heur = -7.0, depth = 7
iter = 5260, queue = 7991, heur = -7.0, depth = 7
iter = 5261, queue = 7994, heur = -7.0, depth = 7
iter = 5262, queue = 7995, heur = -7.0, depth = 7
iter = 5263, queue = 7996, heur = -7.0, depth = 7
iter = 5264, queue = 7997, heur = -7.0, depth = 8
iter = 5265, queue = 8000, heur = -7.0, depth = 7
iter = 5266, queue = 8001, heur = -7.0, depth = 7
iter = 5267, queue = 8002, heur = -7.0, depth = 9
iter = 5268, queue = 8004, heur = -7.0, depth = 7
iter = 5269, queue = 8005, heur = -7.0, depth = 7
iter = 5270, queue = 8007, heur = -7.0, depth = 10
iter = 5271, queue = 8009, heur = -7.0, depth = 7
iter = 5272, queue = 8009, heur = -7.0, depth = 7
iter = 5273, queue = 8011, heur = -7.0, depth = 7
iter = 5274, queue = 8014, heur = -7.0, depth = 7
iter = 5275, queue = 8015, heur = -7.0, depth = 7
iter = 5276, queue = 8015, heur = -7.0, depth = 7
iter = 5277, queue = 8016, heur = -7.0, depth = 7
iter = 5278, queue = 8019, heur = -7.0, depth = 7
iter = 5279, queue = 8019, heur = -7.0, depth = 7
iter = 5280, queue = 8020, heur = -7.0, depth = 7
iter = 5281, queue = 8021, heur = -7.0, depth = 7
iter = 5282, queue = 8024, heur = -7.0, depth = 7
iter = 5283, queue = 8024, heur = -7.0, depth = 7
iter = 5284, queue = 8024, heur = -7.0, depth = 7
iter = 5285, queue = 8025, heur = -7.0, depth = 7
iter = 5286, queue = 8026, heur = -7.0, depth = 7
iter = 5287, queue = 8026, heur = -7.0, depth = 7
iter = 5288, queue = 8027, heur = -7.0, depth = 7
iter = 5289, queue = 8028, heur = -7.0, depth = 7
iter = 5290, queue = 8029, heur = -7.0, depth = 7
iter = 5291, queue = 8029, heur = -7.0, depth = 7
iter = 5292, queue = 8030, heur = -7.0, depth = 7
iter = 5293, queue = 8031, heur = -7.0, depth = 7
iter = 5294, queue = 8032, heur = -7.0, depth = 7
iter = 5295, queue = 8033, heur = -7.0, depth = 7
iter = 5296, queue = 8034, heur = -7.0, depth = 7
iter = 5297, queue = 8037, heur = -7.0, depth = 7
iter = 5298, queue = 8040, heur = -7.0, depth = 7
iter = 5299, queue = 8041, heur = -7.0, depth = 7
iter = 5300, queue = 8042, heur = -7.0, depth = 7
iter = 5301, queue = 8045, heur = -7.0, depth = 7
iter = 5302, queue = 8046, heur = -7.0, depth = 7
iter = 5303, queue = 8049, heur = -7.0, depth = 7
iter = 5304, queue = 8049, heur = -7.0, depth = 7
iter = 5305, queue = 8050, heur = -7.0, depth = 7
iter = 5306, queue = 8053, heur = -7.0, depth = 7
iter = 5307, queue = 8056, heur = -7.0, depth = 7
iter = 5308, queue = 8058, heur = -7.0, depth = 7
iter = 5309, queue = 8061, heur = -7.0, depth = 7
iter = 5310, queue = 8064, heur = -7.0, depth = 7
iter = 5311, queue = 8063, heur = -7.0, depth = 7
iter = 5312, queue = 8063, heur = -7.0, depth = 7
```

```
iter = 5313, queue = 8064, heur = -7.0, depth = 7
iter = 5314, queue = 8067, heur = -7.0, depth = 7
iter = 5315, queue = 8068, heur = -7.0, depth = 7
iter = 5316, queue = 8070, heur = -7.0, depth = 7
iter = 5317, queue = 8071, heur = -7.0, depth = 8
iter = 5318, queue = 8071, heur = -7.0, depth = 7
iter = 5319, queue = 8074, heur = -7.0, depth = 7
iter = 5320, queue = 8077, heur = -7.0, depth = 7
iter = 5321, queue = 8078, heur = -7.0, depth = 7
iter = 5322, queue = 8080, heur = -7.0, depth = 7
iter = 5323, queue = 8083, heur = -7.0, depth = 7
iter = 5324, queue = 8083, heur = -7.0, depth = 7
iter = 5325, queue = 8083, heur = -7.0, depth = 7
iter = 5326, queue = 8086, heur = -7.0, depth = 7
iter = 5327, queue = 8087, heur = -7.0, depth = 7
iter = 5328, queue = 8088, heur = -7.0, depth = 7
iter = 5329, queue = 8091, heur = -7.0, depth = 8
iter = 5330, queue = 8092, heur = -7.0, depth = 7
iter = 5331, queue = 8095, heur = -7.0, depth = 7
iter = 5332, queue = 8096, heur = -7.0, depth = 9
iter = 5333, queue = 8097, heur = -7.0, depth = 7
iter = 5334, queue = 8098, heur = -7.0, depth = 7
iter = 5335, queue = 8101, heur = -7.0, depth = 7
iter = 5336, queue = 8101, heur = -7.0, depth = 7
iter = 5337, queue = 8101, heur = -7.0, depth = 7
iter = 5338, queue = 8104, heur = -7.0, depth = 7
iter = 5339, queue = 8105, heur = -7.0, depth = 7
iter = 5340, queue = 8107, heur = -7.0, depth = 7
iter = 5341, queue = 8109, heur = -7.0, depth = 7
iter = 5342, queue = 8112, heur = -7.0, depth = 7
iter = 5343, queue = 8112, heur = -7.0, depth = 7
iter = 5344, queue = 8113, heur = -7.0, depth = 7
iter = 5345, queue = 8114, heur = -7.0, depth = 7
iter = 5346, queue = 8117, heur = -7.0, depth = 7
iter = 5347, queue = 8116, heur = -7.0, depth = 7
iter = 5348, queue = 8117, heur = -7.0, depth = 7
iter = 5349, queue = 8118, heur = -7.0, depth = 7
iter = 5350, queue = 8119, heur = -7.0, depth = 7
iter = 5351, queue = 8118, heur = -7.0, depth = 7
iter = 5352, queue = 8119, heur = -7.0, depth = 7
iter = 5353, queue = 8120, heur = -7.0, depth = 7
iter = 5354, queue = 8121, heur = -7.0, depth = 7
iter = 5355, queue = 8123, heur = -7.0, depth = 7
iter = 5356, queue = 8122, heur = -7.0, depth = 7
iter = 5357, queue = 8123, heur = -7.0, depth = 7
iter = 5358, queue = 8123, heur = -7.0, depth = 7
iter = 5359, queue = 8126, heur = -7.0, depth = 7
iter = 5360, queue = 8129, heur = -7.0, depth = 7
iter = 5361, queue = 8131, heur = -7.0, depth = 7
iter = 5362, queue = 8130, heur = -7.0, depth = 7
iter = 5363, queue = 8131, heur = -7.0, depth = 7
iter = 5364, queue = 8134, heur = -7.0, depth = 7
iter = 5365, queue = 8135, heur = -7.0, depth = 7
iter = 5366, queue = 8138, heur = -7.0, depth = 7
iter = 5367, queue = 8141, heur = -7.0, depth = 7
iter = 5368, queue = 8142, heur = -7.0, depth = 7
iter = 5369, queue = 8143, heur = -7.0, depth = 7
iter = 5370, queue = 8144, heur = -7.0, depth = 7
iter = 5371, queue = 8144, heur = -7.0, depth = 7
```

```
iter = 5372, queue = 8145, heur = -7.0, depth = 7
iter = 5373, queue = 8147, heur = -7.0, depth = 7
iter = 5374, queue = 8146, heur = -7.0, depth = 7
iter = 5375, queue = 8149, heur = -7.0, depth = 7
iter = 5376, queue = 8151, heur = -7.0, depth = 7
iter = 5377, queue = 8154, heur = -7.0, depth = 7
iter = 5378, queue = 8157, heur = -7.0, depth = 7
iter = 5379, queue = 8158, heur = -7.0, depth = 7
iter = 5380, queue = 8159, heur = -7.0, depth = 7
iter = 5381, queue = 8160, heur = -7.0, depth = 7
iter = 5382, queue = 8163, heur = -7.0, depth = 7
iter = 5383, queue = 8166, heur = -7.0, depth = 7
iter = 5384, queue = 8167, heur = -7.0, depth = 7
iter = 5385, queue = 8169, heur = -7.0, depth = 7
iter = 5386, queue = 8172, heur = -7.0, depth = 7
iter = 5387, queue = 8173, heur = -7.0, depth = 7
iter = 5388, queue = 8174, heur = -7.0, depth = 7
iter = 5389, queue = 8175, heur = -7.0, depth = 7
iter = 5390, queue = 8176, heur = -7.0, depth = 7
iter = 5391, queue = 8177, heur = -7.0, depth = 7
iter = 5392, queue = 8177, heur = -7.0, depth = 7
iter = 5393, queue = 8178, heur = -7.0, depth = 7
iter = 5394, queue = 8178, heur = -7.0, depth = 7
iter = 5395, queue = 8180, heur = -7.0, depth = 7
iter = 5396, queue = 8183, heur = -7.0, depth = 7
iter = 5397, queue = 8186, heur = -7.0, depth = 7
iter = 5398, queue = 8189, heur = -7.0, depth = 7
iter = 5399, queue = 8190, heur = -7.0, depth = 7
iter = 5400, queue = 8192, heur = -7.0, depth = 7
iter = 5401, queue = 8193, heur = -7.0, depth = 7
iter = 5402, queue = 8194, heur = -7.0, depth = 7
iter = 5403, queue = 8196, heur = -7.0, depth = 7
iter = 5404, queue = 8199, heur = -7.0, depth = 7
iter = 5405, queue = 8202, heur = -7.0, depth = 7
iter = 5406, queue = 8201, heur = -7.0, depth = 7
iter = 5407, queue = 8202, heur = -7.0, depth = 7
iter = 5408, queue = 8204, heur = -7.0, depth = 7
iter = 5409, queue = 8205, heur = -7.0, depth = 7
iter = 5410, queue = 8205, heur = -7.0, depth = 7
iter = 5411, queue = 8208, heur = -7.0, depth = 7
iter = 5412, queue = 8211, heur = -7.0, depth = 7
iter = 5413, queue = 8212, heur = -7.0, depth = 7
iter = 5414, queue = 8213, heur = -7.0, depth = 7
iter = 5415, queue = 8216, heur = -7.0, depth = 10
iter = 5416, queue = 8217, heur = -7.0, depth = 7
iter = 5417, queue = 8218, heur = -7.0, depth = 7
iter = 5418, queue = 8221, heur = -7.0, depth = 7
iter = 5419, queue = 8224, heur = -7.0, depth = 7
iter = 5420, queue = 8225, heur = -7.0, depth = 7
iter = 5421, queue = 8226, heur = -7.0, depth = 7
iter = 5422, queue = 8229, heur = -7.0, depth = 8
iter = 5423, queue = 8232, heur = -7.0, depth = 7
iter = 5424, queue = 8233, heur = -7.0, depth = 7
iter = 5425, queue = 8232, heur = -7.0, depth = 7
iter = 5426, queue = 8231, heur = -7.0, depth = 7
iter = 5427, queue = 8231, heur = -7.0, depth = 7
iter = 5428, queue = 8232, heur = -7.0, depth = 7
iter = 5429, queue = 8235, heur = -7.0, depth = 7
iter = 5430, queue = 8234, heur = -7.0, depth = 7
```

```
iter = 5431, queue = 8235, heur = -7.0, depth = 7
iter = 5432, queue = 8238, heur = -7.0, depth = 7
iter = 5433, queue = 8238, heur = -7.0, depth = 7
iter = 5434, queue = 8239, heur = -7.0, depth = 7
iter = 5435, queue = 8240, heur = -7.0, depth = 7
iter = 5436, queue = 8243, heur = -7.0, depth = 7
iter = 5437, queue = 8242, heur = -7.0, depth = 7
iter = 5438, queue = 8245, heur = -7.0, depth = 7
iter = 5439, queue = 8248, heur = -7.0, depth = 7
iter = 5440, queue = 8249, heur = -7.0, depth = 7
iter = 5441, queue = 8250, heur = -7.0, depth = 7
iter = 5442, queue = 8252, heur = -7.0, depth = 7
iter = 5443, queue = 8254, heur = -7.0, depth = 7
iter = 5444, queue = 8254, heur = -7.0, depth = 7
iter = 5445, queue = 8255, heur = -7.0, depth = 7
iter = 5446, queue = 8256, heur = -7.0, depth = 7
iter = 5447, queue = 8258, heur = -7.0, depth = 7
iter = 5448, queue = 8259, heur = -7.0, depth = 7
iter = 5449, queue = 8259, heur = -7.0, depth = 7
iter = 5450, queue = 8260, heur = -7.0, depth = 7
iter = 5451, queue = 8262, heur = -7.0, depth = 7
iter = 5452, queue = 8263, heur = -7.0, depth = 7
iter = 5453, queue = 8264, heur = -7.0, depth = 7
iter = 5454, queue = 8265, heur = -7.0, depth = 7
iter = 5455, queue = 8266, heur = -7.0, depth = 7
iter = 5456, queue = 8267, heur = -7.0, depth = 7
iter = 5457, queue = 8268, heur = -7.0, depth = 7
iter = 5458, queue = 8270, heur = -7.0, depth = 7
iter = 5459, queue = 8271, heur = -7.0, depth = 7
iter = 5460, queue = 8272, heur = -7.0, depth = 7
iter = 5461, queue = 8275, heur = -7.0, depth = 7
iter = 5462, queue = 8276, heur = -7.0, depth = 7
iter = 5463, queue = 8277, heur = -7.0, depth = 7
iter = 5464, queue = 8278, heur = -7.0, depth = 7
iter = 5465, queue = 8278, heur = -7.0, depth = 7
iter = 5466, queue = 8278, heur = -7.0, depth = 7
iter = 5467, queue = 8279, heur = -7.0, depth = 7
iter = 5468, queue = 8281, heur = -7.0, depth = 7
iter = 5469, queue = 8280, heur = -7.0, depth = 7
iter = 5470, queue = 8281, heur = -7.0, depth = 7
iter = 5471, queue = 8284, heur = -7.0, depth = 7
iter = 5472, queue = 8285, heur = -7.0, depth = 7
iter = 5473, queue = 8288, heur = -7.0, depth = 7
iter = 5474, queue = 8288, heur = -7.0, depth = 7
iter = 5475, queue = 8288, heur = -7.0, depth = 7
iter = 5476, queue = 8289, heur = -7.0, depth = 7
iter = 5477, queue = 8290, heur = -7.0, depth = 7
iter = 5478, queue = 8291, heur = -7.0, depth = 7
iter = 5479, queue = 8293, heur = -7.0, depth = 7
iter = 5480, queue = 8293, heur = -7.0, depth = 7
iter = 5481, queue = 8294, heur = -7.0, depth = 7
iter = 5482, queue = 8295, heur = -7.0, depth = 7
iter = 5483, queue = 8296, heur = -7.0, depth = 7
iter = 5484, queue = 8297, heur = -7.0, depth = 7
iter = 5485, queue = 8298, heur = -7.0, depth = 7
iter = 5486, queue = 8300, heur = -7.0, depth = 7
iter = 5487, queue = 8303, heur = -7.0, depth = 7
iter = 5488, queue = 8304, heur = -7.0, depth = 7
iter = 5489, queue = 8305, heur = -7.0, depth = 7
```

```
iter = 5490, queue = 8306, heur = -7.0, depth = 7
iter = 5491, queue = 8307, heur = -7.0, depth = 7
iter = 5492, queue = 8306, heur = -7.0, depth = 7
iter = 5493, queue = 8308, heur = -7.0, depth = 7
iter = 5494, queue = 8309, heur = -7.0, depth = 7
iter = 5495, queue = 8311, heur = -7.0, depth = 7
iter = 5496, queue = 8312, heur = -7.0, depth = 7
iter = 5497, queue = 8315, heur = -7.0, depth = 7
iter = 5498, queue = 8316, heur = -7.0, depth = 7
iter = 5499, queue = 8319, heur = -7.0, depth = 7
iter = 5500, queue = 8320, heur = -7.0, depth = 7
iter = 5501, queue = 8319, heur = -7.0, depth = 7
iter = 5502, queue = 8321, heur = -7.0, depth = 7
iter = 5503, queue = 8322, heur = -7.0, depth = 7
iter = 5504, queue = 8321, heur = -7.0, depth = 7
iter = 5505, queue = 8324, heur = -7.0, depth = 7
iter = 5506, queue = 8325, heur = -7.0, depth = 7
iter = 5507, queue = 8326, heur = -7.0, depth = 7
iter = 5508, queue = 8328, heur = -7.0, depth = 7
iter = 5509, queue = 8329, heur = -7.0, depth = 7
iter = 5510, queue = 8331, heur = -7.0, depth = 7
iter = 5511, queue = 8332, heur = -7.0, depth = 7
iter = 5512, queue = 8333, heur = -7.0, depth = 7
iter = 5513, queue = 8336, heur = -7.0, depth = 7
iter = 5514, queue = 8338, heur = -7.0, depth = 7
iter = 5515, queue = 8339, heur = -7.0, depth = 7
iter = 5516, queue = 8339, heur = -7.0, depth = 7
iter = 5517, queue = 8340, heur = -7.0, depth = 7
iter = 5518, queue = 8342, heur = -7.0, depth = 7
iter = 5519, queue = 8343, heur = -7.0, depth = 7
iter = 5520, queue = 8344, heur = -7.0, depth = 7
iter = 5521, queue = 8344, heur = -7.0, depth = 7
iter = 5522, queue = 8347, heur = -7.0, depth = 7
iter = 5523, queue = 8348, heur = -7.0, depth = 7
iter = 5524, queue = 8348, heur = -7.0, depth = 7
iter = 5525, queue = 8349, heur = -7.0, depth = 7
iter = 5526, queue = 8350, heur = -7.0, depth = 7
iter = 5527, queue = 8352, heur = -7.0, depth = 7
iter = 5528, queue = 8353, heur = -7.0, depth = 7
iter = 5529, queue = 8354, heur = -7.0, depth = 7
iter = 5530, queue = 8356, heur = -7.0, depth = 7
iter = 5531, queue = 8357, heur = -7.0, depth = 7
iter = 5532, queue = 8358, heur = -7.0, depth = 7
iter = 5533, queue = 8359, heur = -7.0, depth = 7
iter = 5534, queue = 8359, heur = -7.0, depth = 7
iter = 5535, queue = 8360, heur = -7.0, depth = 7
iter = 5536, queue = 8361, heur = -7.0, depth = 7
iter = 5537, queue = 8364, heur = -7.0, depth = 7
iter = 5538, queue = 8365, heur = -7.0, depth = 7
iter = 5539, queue = 8366, heur = -7.0, depth = 7
iter = 5540, queue = 8368, heur = -7.0, depth = 7
iter = 5541, queue = 8370, heur = -7.0, depth = 7
iter = 5542, queue = 8371, heur = -7.0, depth = 7
iter = 5543, queue = 8374, heur = -7.0, depth = 7
iter = 5544, queue = 8375, heur = -7.0, depth = 7
iter = 5545, queue = 8376, heur = -7.0, depth = 7
iter = 5546, queue = 8379, heur = -7.0, depth = 7
iter = 5547, queue = 8380, heur = -7.0, depth = 7
iter = 5548, queue = 8383, heur = -7.0, depth = 7
```

```
iter = 5549, queue = 8386, heur = -7.0, depth = 7
iter = 5550, queue = 8389, heur = -7.0, depth = 7
iter = 5551, queue = 8389, heur = -7.0, depth = 7
iter = 5552, queue = 8390, heur = -7.0, depth = 7
iter = 5553, queue = 8391, heur = -7.0, depth = 7
iter = 5554, queue = 8392, heur = -7.0, depth = 7
iter = 5555, queue = 8394, heur = -7.0, depth = 7
iter = 5556, queue = 8393, heur = -7.0, depth = 7
iter = 5557, queue = 8392, heur = -7.0, depth = 7
iter = 5558, queue = 8393, heur = -7.0, depth = 7
iter = 5559, queue = 8394, heur = -7.0, depth = 7
iter = 5560, queue = 8397, heur = -7.0, depth = 7
iter = 5561, queue = 8400, heur = -7.0, depth = 7
iter = 5562, queue = 8403, heur = -7.0, depth = 7
iter = 5563, queue = 8404, heur = -7.0, depth = 7
iter = 5564, queue = 8407, heur = -7.0, depth = 7
iter = 5565, queue = 8410, heur = -7.0, depth = 7
iter = 5566, queue = 8413, heur = -7.0, depth = 7
iter = 5567, queue = 8416, heur = -7.0, depth = 7
iter = 5568, queue = 8417, heur = -7.0, depth = 7
iter = 5569, queue = 8420, heur = -7.0, depth = 7
iter = 5570, queue = 8420, heur = -7.0, depth = 7
iter = 5571, queue = 8423, heur = -7.0, depth = 7
iter = 5572, queue = 8422, heur = -7.0, depth = 7
iter = 5573, queue = 8422, heur = -7.0, depth = 7
iter = 5574, queue = 8425, heur = -7.0, depth = 7
iter = 5575, queue = 8426, heur = -7.0, depth = 7
iter = 5576, queue = 8429, heur = -7.0, depth = 7
iter = 5577, queue = 8432, heur = -7.0, depth = 7
iter = 5578, queue = 8431, heur = -7.0, depth = 7
iter = 5579, queue = 8432, heur = -7.0, depth = 7
iter = 5580, queue = 8435, heur = -7.0, depth = 7
iter = 5581, queue = 8434, heur = -7.0, depth = 7
iter = 5582, queue = 8437, heur = -7.0, depth = 7
iter = 5583, queue = 8440, heur = -7.0, depth = 7
iter = 5584, queue = 8441, heur = -7.0, depth = 7
iter = 5585, queue = 8442, heur = -7.0, depth = 7
iter = 5586, queue = 8443, heur = -7.0, depth = 8
iter = 5587, queue = 8443, heur = -7.0, depth = 7
iter = 5588, queue = 8444, heur = -7.0, depth = 7
iter = 5589, queue = 8444, heur = -7.0, depth = 7
iter = 5590, queue = 8443, heur = -7.0, depth = 7
iter = 5591, queue = 8444, heur = -7.0, depth = 7
iter = 5592, queue = 8446, heur = -7.0, depth = 7
iter = 5593, queue = 8449, heur = -7.0, depth = 7
iter = 5594, queue = 8450, heur = -7.0, depth = 7
iter = 5595, queue = 8451, heur = -7.0, depth = 7
iter = 5596, queue = 8452, heur = -7.0, depth = 7
iter = 5597, queue = 8454, heur = -7.0, depth = 7
iter = 5598, queue = 8454, heur = -7.0, depth = 7
iter = 5599, queue = 8455, heur = -7.0, depth = 7
iter = 5600, queue = 8458, heur = -7.0, depth = 7
iter = 5601, queue = 8458, heur = -7.0, depth = 7
iter = 5602, queue = 8459, heur = -7.0, depth = 7
iter = 5603, queue = 8462, heur = -7.0, depth = 7
iter = 5604, queue = 8463, heur = -7.0, depth = 7
iter = 5605, queue = 8464, heur = -7.0, depth = 7
iter = 5606, queue = 8466, heur = -7.0, depth = 7
iter = 5607, queue = 8469, heur = -7.0, depth = 7
```

```
iter = 5608, queue = 8470, heur = -7.0, depth = 7
iter = 5609, queue = 8472, heur = -7.0, depth = 7
iter = 5610, queue = 8475, heur = -7.0, depth = 7
iter = 5611, queue = 8476, heur = -7.0, depth = 7
iter = 5612, queue = 8477, heur = -7.0, depth = 7
iter = 5613, queue = 8477, heur = -7.0, depth = 7
iter = 5614, queue = 8478, heur = -7.0, depth = 7
iter = 5615, queue = 8479, heur = -7.0, depth = 7
iter = 5616, queue = 8480, heur = -7.0, depth = 7
iter = 5617, queue = 8479, heur = -7.0, depth = 7
iter = 5618, queue = 8479, heur = -7.0, depth = 7
iter = 5619, queue = 8481, heur = -7.0, depth = 7
iter = 5620, queue = 8482, heur = -7.0, depth = 7
iter = 5621, queue = 8483, heur = -7.0, depth = 7
iter = 5622, queue = 8483, heur = -7.0, depth = 7
iter = 5623, queue = 8484, heur = -7.0, depth = 7
iter = 5624, queue = 8485, heur = -7.0, depth = 7
iter = 5625, queue = 8486, heur = -7.0, depth = 7
iter = 5626, queue = 8487, heur = -7.0, depth = 7
iter = 5627, queue = 8488, heur = -7.0, depth = 7
iter = 5628, queue = 8488, heur = -7.0, depth = 7
iter = 5629, queue = 8489, heur = -7.0, depth = 7
iter = 5630, queue = 8492, heur = -7.0, depth = 7
iter = 5631, queue = 8491, heur = -7.0, depth = 7
iter = 5632, queue = 8494, heur = -7.0, depth = 7
iter = 5633, queue = 8497, heur = -7.0, depth = 7
iter = 5634, queue = 8499, heur = -7.0, depth = 7
iter = 5635, queue = 8501, heur = -7.0, depth = 7
iter = 5636, queue = 8503, heur = -7.0, depth = 7
iter = 5637, queue = 8506, heur = -7.0, depth = 7
iter = 5638, queue = 8506, heur = -7.0, depth = 7
iter = 5639, queue = 8507, heur = -7.0, depth = 7
iter = 5640, queue = 8508, heur = -7.0, depth = 7
iter = 5641, queue = 8511, heur = -7.0, depth = 7
iter = 5642, queue = 8511, heur = -7.0, depth = 7
iter = 5643, queue = 8512, heur = -7.0, depth = 7
iter = 5644, queue = 8513, heur = -7.0, depth = 7
iter = 5645, queue = 8513, heur = -7.0, depth = 7
iter = 5646, queue = 8514, heur = -7.0, depth = 7
iter = 5647, queue = 8517, heur = -7.0, depth = 7
iter = 5648, queue = 8518, heur = -7.0, depth = 7
iter = 5649, queue = 8519, heur = -7.0, depth = 7
iter = 5650, queue = 8520, heur = -7.0, depth = 7
iter = 5651, queue = 8520, heur = -7.0, depth = 7
iter = 5652, queue = 8521, heur = -7.0, depth = 7
iter = 5653, queue = 8524, heur = -7.0, depth = 9
iter = 5654, queue = 8527, heur = -7.0, depth = 7
iter = 5655, queue = 8530, heur = -7.0, depth = 7
iter = 5656, queue = 8531, heur = -7.0, depth = 7
iter = 5657, queue = 8534, heur = -7.0, depth = 7
iter = 5658, queue = 8535, heur = -7.0, depth = 7
iter = 5659, queue = 8538, heur = -7.0, depth = 7
iter = 5660, queue = 8539, heur = -7.0, depth = 7
iter = 5661, queue = 8540, heur = -7.0, depth = 7
iter = 5662, queue = 8539, heur = -7.0, depth = 7
iter = 5663, queue = 8540, heur = -7.0, depth = 7
iter = 5664, queue = 8540, heur = -7.0, depth = 8
iter = 5665, queue = 8542, heur = -7.0, depth = 7
iter = 5666, queue = 8542, heur = -7.0, depth = 7
```

```
iter = 5667, queue = 8545, heur = -7.0, depth = 7
iter = 5668, queue = 8545, heur = -7.0, depth = 7
iter = 5669, queue = 8546, heur = -7.0, depth = 7
iter = 5670, queue = 8547, heur = -7.0, depth = 7
iter = 5671, queue = 8548, heur = -7.0, depth = 7
iter = 5672, queue = 8550, heur = -7.0, depth = 7
iter = 5673, queue = 8552, heur = -7.0, depth = 7
iter = 5674, queue = 8553, heur = -7.0, depth = 7
iter = 5675, queue = 8556, heur = -7.0, depth = 7
iter = 5676, queue = 8555, heur = -7.0, depth = 7
iter = 5677, queue = 8556, heur = -7.0, depth = 7
iter = 5678, queue = 8557, heur = -7.0, depth = 7
iter = 5679, queue = 8558, heur = -7.0, depth = 7
iter = 5680, queue = 8559, heur = -7.0, depth = 7
iter = 5681, queue = 8562, heur = -7.0, depth = 7
iter = 5682, queue = 8563, heur = -7.0, depth = 7
iter = 5683, queue = 8564, heur = -7.0, depth = 7
iter = 5684, queue = 8566, heur = -7.0, depth = 7
iter = 5685, queue = 8569, heur = -7.0, depth = 7
iter = 5686, queue = 8570, heur = -7.0, depth = 7
iter = 5687, queue = 8571, heur = -7.0, depth = 7
iter = 5688, queue = 8570, heur = -7.0, depth = 7
iter = 5689, queue = 8572, heur = -7.0, depth = 7
iter = 5690, queue = 8575, heur = -7.0, depth = 7
iter = 5691, queue = 8574, heur = -7.0, depth = 7
iter = 5692, queue = 8575, heur = -7.0, depth = 8
iter = 5693, queue = 8575, heur = -7.0, depth = 7
iter = 5694, queue = 8576, heur = -7.0, depth = 7
iter = 5695, queue = 8579, heur = -7.0, depth = 7
iter = 5696, queue = 8580, heur = -7.0, depth = 7
iter = 5697, queue = 8579, heur = -7.0, depth = 7
iter = 5698, queue = 8580, heur = -7.0, depth = 7
iter = 5699, queue = 8581, heur = -7.0, depth = 7
iter = 5700, queue = 8580, heur = -7.0, depth = 7
iter = 5701, queue = 8581, heur = -7.0, depth = 7
iter = 5702, queue = 8582, heur = -7.0, depth = 7
iter = 5703, queue = 8583, heur = -7.0, depth = 7
iter = 5704, queue = 8584, heur = -7.0, depth = 7
iter = 5705, queue = 8587, heur = -7.0, depth = 7
iter = 5706, queue = 8588, heur = -7.0, depth = 7
iter = 5707, queue = 8589, heur = -7.0, depth = 7
iter = 5708, queue = 8592, heur = -7.0, depth = 7
iter = 5709, queue = 8593, heur = -7.0, depth = 7
iter = 5710, queue = 8594, heur = -7.0, depth = 7
iter = 5711, queue = 8597, heur = -7.0, depth = 7
iter = 5712, queue = 8598, heur = -7.0, depth = 7
iter = 5713, queue = 8601, heur = -7.0, depth = 7
iter = 5714, queue = 8603, heur = -7.0, depth = 7
iter = 5715, queue = 8606, heur = -7.0, depth = 7
iter = 5716, queue = 8609, heur = -7.0, depth = 7
iter = 5717, queue = 8610, heur = -7.0, depth = 7
iter = 5718, queue = 8611, heur = -7.0, depth = 7
iter = 5719, queue = 8614, heur = -7.0, depth = 7
iter = 5720, queue = 8615, heur = -7.0, depth = 7
iter = 5721, queue = 8617, heur = -7.0, depth = 7
iter = 5722, queue = 8618, heur = -7.0, depth = 7
iter = 5723, queue = 8619, heur = -7.0, depth = 7
iter = 5724, queue = 8622, heur = -7.0, depth = 7
iter = 5725, queue = 8623, heur = -7.0, depth = 7
```

```
iter = 5726, queue = 8623, heur = -7.0, depth = 7
iter = 5727, queue = 8624, heur = -7.0, depth = 7
iter = 5728, queue = 8627, heur = -7.0, depth = 7
iter = 5729, queue = 8626, heur = -7.0, depth = 7
iter = 5730, queue = 8629, heur = -7.0, depth = 7
iter = 5731, queue = 8632, heur = -7.0, depth = 7
iter = 5732, queue = 8631, heur = -7.0, depth = 7
iter = 5733, queue = 8634, heur = -7.0, depth = 7
iter = 5734, queue = 8637, heur = -7.0, depth = 7
iter = 5735, queue = 8638, heur = -7.0, depth = 7
iter = 5736, queue = 8637, heur = -7.0, depth = 7
iter = 5737, queue = 8638, heur = -7.0, depth = 7
iter = 5738, queue = 8639, heur = -7.0, depth = 7
iter = 5739, queue = 8640, heur = -7.0, depth = 7
iter = 5740, queue = 8641, heur = -7.0, depth = 7
iter = 5741, queue = 8643, heur = -7.0, depth = 7
iter = 5742, queue = 8643, heur = -7.0, depth = 8
iter = 5743, queue = 8644, heur = -7.0, depth = 7
iter = 5744, queue = 8645, heur = -7.0, depth = 7
iter = 5745, queue = 8648, heur = -7.0, depth = 7
iter = 5746, queue = 8651, heur = -7.0, depth = 7
iter = 5747, queue = 8652, heur = -7.0, depth = 7
iter = 5748, queue = 8652, heur = -7.0, depth = 7
iter = 5749, queue = 8653, heur = -7.0, depth = 7
iter = 5750, queue = 8654, heur = -7.0, depth = 7
iter = 5751, queue = 8657, heur = -7.0, depth = 7
iter = 5752, queue = 8658, heur = -7.0, depth = 7
iter = 5753, queue = 8659, heur = -7.0, depth = 7
iter = 5754, queue = 8662, heur = -7.0, depth = 7
iter = 5755, queue = 8663, heur = -7.0, depth = 7
iter = 5756, queue = 8665, heur = -7.0, depth = 7
iter = 5757, queue = 8668, heur = -7.0, depth = 7
iter = 5758, queue = 8669, heur = -7.0, depth = 7
iter = 5759, queue = 8672, heur = -7.0, depth = 7
iter = 5760, queue = 8673, heur = -7.0, depth = 7
iter = 5761, queue = 8672, heur = -7.0, depth = 7
iter = 5762, queue = 8673, heur = -7.0, depth = 7
iter = 5763, queue = 8674, heur = -7.0, depth = 8
iter = 5764, queue = 8674, heur = -7.0, depth = 7
iter = 5765, queue = 8675, heur = -7.0, depth = 7
iter = 5766, queue = 8676, heur = -7.0, depth = 7
iter = 5767, queue = 8678, heur = -7.0, depth = 7
iter = 5768, queue = 8681, heur = -7.0, depth = 7
iter = 5769, queue = 8684, heur = -7.0, depth = 7
iter = 5770, queue = 8686, heur = -7.0, depth = 7
iter = 5771, queue = 8689, heur = -7.0, depth = 7
iter = 5772, queue = 8690, heur = -7.0, depth = 7
iter = 5773, queue = 8689, heur = -7.0, depth = 7
iter = 5774, queue = 8688, heur = -7.0, depth = 7
iter = 5775, queue = 8690, heur = -7.0, depth = 7
iter = 5776, queue = 8691, heur = -7.0, depth = 7
iter = 5777, queue = 8693, heur = -7.0, depth = 7
iter = 5778, queue = 8694, heur = -7.0, depth = 7
iter = 5779, queue = 8697, heur = -7.0, depth = 7
iter = 5780, queue = 8700, heur = -7.0, depth = 7
iter = 5781, queue = 8702, heur = -7.0, depth = 7
iter = 5782, queue = 8704, heur = -7.0, depth = 7
iter = 5783, queue = 8705, heur = -7.0, depth = 7
iter = 5784, queue = 8706, heur = -7.0, depth = 7
```

```
iter = 5785, queue = 8707, heur = -7.0, depth = 7
iter = 5786, queue = 8708, heur = -7.0, depth = 7
iter = 5787, queue = 8709, heur = -7.0, depth = 7
iter = 5788, queue = 8710, heur = -7.0, depth = 7
iter = 5789, queue = 8709, heur = -7.0, depth = 7
iter = 5790, queue = 8710, heur = -7.0, depth = 7
iter = 5791, queue = 8712, heur = -7.0, depth = 7
iter = 5792, queue = 8711, heur = -7.0, depth = 7
iter = 5793, queue = 8713, heur = -7.0, depth = 7
iter = 5794, queue = 8714, heur = -7.0, depth = 7
iter = 5795, queue = 8716, heur = -7.0, depth = 7
iter = 5796, queue = 8719, heur = -7.0, depth = 7
iter = 5797, queue = 8722, heur = -7.0, depth = 7
iter = 5798, queue = 8723, heur = -7.0, depth = 7
iter = 5799, queue = 8726, heur = -7.0, depth = 7
iter = 5800, queue = 8727, heur = -7.0, depth = 7
iter = 5801, queue = 8727, heur = -7.0, depth = 7
iter = 5802, queue = 8729, heur = -7.0, depth = 7
iter = 5803, queue = 8728, heur = -7.0, depth = 7
iter = 5804, queue = 8730, heur = -7.0, depth = 7
iter = 5805, queue = 8729, heur = -7.0, depth = 7
iter = 5806, queue = 8730, heur = -7.0, depth = 7
iter = 5807, queue = 8733, heur = -7.0, depth = 7
iter = 5808, queue = 8736, heur = -7.0, depth = 7
iter = 5809, queue = 8735, heur = -7.0, depth = 7
iter = 5810, queue = 8736, heur = -7.0, depth = 7
iter = 5811, queue = 8737, heur = -7.0, depth = 7
iter = 5812, queue = 8740, heur = -7.0, depth = 7
iter = 5813, queue = 8739, heur = -7.0, depth = 7
iter = 5814, queue = 8740, heur = -7.0, depth = 7
iter = 5815, queue = 8741, heur = -7.0, depth = 7
iter = 5816, queue = 8743, heur = -7.0, depth = 7
iter = 5817, queue = 8743, heur = -7.0, depth = 7
iter = 5818, queue = 8744, heur = -7.0, depth = 7
iter = 5819, queue = 8746, heur = -7.0, depth = 7
iter = 5820, queue = 8749, heur = -7.0, depth = 7
iter = 5821, queue = 8749, heur = -7.0, depth = 7
iter = 5822, queue = 8750, heur = -7.0, depth = 7
iter = 5823, queue = 8749, heur = -7.0, depth = 7
iter = 5824, queue = 8750, heur = -7.0, depth = 7
iter = 5825, queue = 8751, heur = -7.0, depth = 7
iter = 5826, queue = 8752, heur = -7.0, depth = 8
iter = 5827, queue = 8753, heur = -7.0, depth = 7
iter = 5828, queue = 8753, heur = -7.0, depth = 7
iter = 5829, queue = 8754, heur = -7.0, depth = 7
iter = 5830, queue = 8755, heur = -7.0, depth = 7
iter = 5831, queue = 8756, heur = -7.0, depth = 7
iter = 5832, queue = 8757, heur = -7.0, depth = 7
iter = 5833, queue = 8758, heur = -7.0, depth = 7
iter = 5834, queue = 8759, heur = -7.0, depth = 7
iter = 5835, queue = 8760, heur = -7.0, depth = 7
iter = 5836, queue = 8761, heur = -7.0, depth = 7
iter = 5837, queue = 8762, heur = -7.0, depth = 7
iter = 5838, queue = 8763, heur = -7.0, depth = 7
iter = 5839, queue = 8765, heur = -7.0, depth = 7
iter = 5840, queue = 8765, heur = -7.0, depth = 7
iter = 5841, queue = 8768, heur = -7.0, depth = 7
iter = 5842, queue = 8769, heur = -7.0, depth = 7
iter = 5843, queue = 8771, heur = -7.0, depth = 7
```

```
iter = 5844, queue = 8773, heur = -7.0, depth = 7
iter = 5845, queue = 8773, heur = -7.0, depth = 7
iter = 5846, queue = 8774, heur = -7.0, depth = 7
iter = 5847, queue = 8775, heur = -7.0, depth = 7
iter = 5848, queue = 8776, heur = -7.0, depth = 7
iter = 5849, queue = 8776, heur = -7.0, depth = 7
iter = 5850, queue = 8779, heur = -7.0, depth = 7
iter = 5851, queue = 8778, heur = -7.0, depth = 7
iter = 5852, queue = 8779, heur = -7.0, depth = 7
iter = 5853, queue = 8778, heur = -7.0, depth = 10
iter = 5854, queue = 8779, heur = -7.0, depth = 7
iter = 5855, queue = 8782, heur = -7.0, depth = 7
iter = 5856, queue = 8783, heur = -7.0, depth = 7
iter = 5857, queue = 8784, heur = -7.0, depth = 7
iter = 5858, queue = 8785, heur = -7.0, depth = 7
iter = 5859, queue = 8786, heur = -7.0, depth = 7
iter = 5860, queue = 8789, heur = -7.0, depth = 7
iter = 5861, queue = 8790, heur = -7.0, depth = 7
iter = 5862, queue = 8789, heur = -7.0, depth = 7
iter = 5863, queue = 8790, heur = -7.0, depth = 8
iter = 5864, queue = 8789, heur = -7.0, depth = 7
iter = 5865, queue = 8790, heur = -7.0, depth = 7
iter = 5866, queue = 8790, heur = -7.0, depth = 7
iter = 5867, queue = 8791, heur = -7.0, depth = 7
iter = 5868, queue = 8794, heur = -7.0, depth = 7
iter = 5869, queue = 8797, heur = -7.0, depth = 7
iter = 5870, queue = 8798, heur = -7.0, depth = 7
iter = 5871, queue = 8799, heur = -7.0, depth = 7
iter = 5872, queue = 8800, heur = -7.0, depth = 7
iter = 5873, queue = 8800, heur = -7.0, depth = 7
iter = 5874, queue = 8801, heur = -7.0, depth = 7
iter = 5875, queue = 8800, heur = -7.0, depth = 7
iter = 5876, queue = 8801, heur = -7.0, depth = 7
iter = 5877, queue = 8802, heur = -7.0, depth = 7
iter = 5878, queue = 8805, heur = -7.0, depth = 7
iter = 5879, queue = 8806, heur = -7.0, depth = 7
iter = 5880, queue = 8806, heur = -7.0, depth = 7
iter = 5881, queue = 8807, heur = -7.0, depth = 7
iter = 5882, queue = 8807, heur = -7.0, depth = 7
iter = 5883, queue = 8809, heur = -7.0, depth = 7
iter = 5884, queue = 8812, heur = -7.0, depth = 8
iter = 5885, queue = 8814, heur = -7.0, depth = 7
iter = 5886, queue = 8817, heur = -7.0, depth = 7
iter = 5887, queue = 8820, heur = -7.0, depth = 7
iter = 5888, queue = 8821, heur = -7.0, depth = 7
iter = 5889, queue = 8824, heur = -7.0, depth = 7
iter = 5890, queue = 8827, heur = -7.0, depth = 7
iter = 5891, queue = 8829, heur = -7.0, depth = 7
iter = 5892, queue = 8831, heur = -7.0, depth = 7
iter = 5893, queue = 8832, heur = -7.0, depth = 7
iter = 5894, queue = 8834, heur = -7.0, depth = 7
iter = 5895, queue = 8837, heur = -7.0, depth = 7
iter = 5896, queue = 8837, heur = -7.0, depth = 7
iter = 5897, queue = 8839, heur = -7.0, depth = 7
iter = 5898, queue = 8839, heur = -7.0, depth = 7
iter = 5899, queue = 8840, heur = -7.0, depth = 7
iter = 5900, queue = 8840, heur = -7.0, depth = 7
iter = 5901, queue = 8842, heur = -7.0, depth = 7
iter = 5902, queue = 8845, heur = -7.0, depth = 8
```

```
iter = 5903, queue = 8845, heur = -7.0, depth = 7
iter = 5904, queue = 8845, heur = -7.0, depth = 7
iter = 5905, queue = 8844, heur = -7.0, depth = 7
iter = 5906, queue = 8845, heur = -7.0, depth = 8
iter = 5907, queue = 8846, heur = -7.0, depth = 7
iter = 5908, queue = 8847, heur = -7.0, depth = 7
iter = 5909, queue = 8848, heur = -7.0, depth = 7
iter = 5910, queue = 8848, heur = -7.0, depth = 7
iter = 5911, queue = 8850, heur = -7.0, depth = 7
iter = 5912, queue = 8851, heur = -7.0, depth = 7
iter = 5913, queue = 8852, heur = -7.0, depth = 7
iter = 5914, queue = 8851, heur = -7.0, depth = 7
iter = 5915, queue = 8854, heur = -7.0, depth = 7
iter = 5916, queue = 8855, heur = -7.0, depth = 7
iter = 5917, queue = 8854, heur = -7.0, depth = 7
iter = 5918, queue = 8854, heur = -7.0, depth = 7
iter = 5919, queue = 8855, heur = -7.0, depth = 7
iter = 5920, queue = 8858, heur = -7.0, depth = 7
iter = 5921, queue = 8857, heur = -7.0, depth = 7
iter = 5922, queue = 8859, heur = -7.0, depth = 7
iter = 5923, queue = 8860, heur = -7.0, depth = 7
iter = 5924, queue = 8863, heur = -7.0, depth = 7
iter = 5925, queue = 8865, heur = -7.0, depth = 7
iter = 5926, queue = 8866, heur = -7.0, depth = 7
iter = 5927, queue = 8867, heur = -7.0, depth = 7
iter = 5928, queue = 8870, heur = -7.0, depth = 7
iter = 5929, queue = 8871, heur = -7.0, depth = 7
iter = 5930, queue = 8874, heur = -7.0, depth = 7
iter = 5931, queue = 8877, heur = -7.0, depth = 7
iter = 5932, queue = 8878, heur = -7.0, depth = 7
iter = 5933, queue = 8879, heur = -7.0, depth = 7
iter = 5934, queue = 8882, heur = -7.0, depth = 7
iter = 5935, queue = 8883, heur = -7.0, depth = 7
iter = 5936, queue = 8884, heur = -7.0, depth = 7
iter = 5937, queue = 8885, heur = -7.0, depth = 7
iter = 5938, queue = 8886, heur = -7.0, depth = 7
iter = 5939, queue = 8889, heur = -7.0, depth = 7
iter = 5940, queue = 8891, heur = -7.0, depth = 7
iter = 5941, queue = 8892, heur = -7.0, depth = 7
iter = 5942, queue = 8893, heur = -7.0, depth = 7
iter = 5943, queue = 8893, heur = -7.0, depth = 7
iter = 5944, queue = 8895, heur = -7.0, depth = 7
iter = 5945, queue = 8898, heur = -7.0, depth = 7
iter = 5946, queue = 8899, heur = -7.0, depth = 7
iter = 5947, queue = 8900, heur = -7.0, depth = 7
iter = 5948, queue = 8900, heur = -7.0, depth = 7
iter = 5949, queue = 8900, heur = -7.0, depth = 7
iter = 5950, queue = 8901, heur = -7.0, depth = 7
iter = 5951, queue = 8902, heur = -7.0, depth = 7
iter = 5952, queue = 8901, heur = -7.0, depth = 7
iter = 5953, queue = 8900, heur = -7.0, depth = 7
iter = 5954, queue = 8902, heur = -7.0, depth = 7
iter = 5955, queue = 8903, heur = -7.0, depth = 7
iter = 5956, queue = 8904, heur = -7.0, depth = 7
iter = 5957, queue = 8906, heur = -7.0, depth = 7
iter = 5958, queue = 8909, heur = -7.0, depth = 7
iter = 5959, queue = 8912, heur = -7.0, depth = 7
iter = 5960, queue = 8913, heur = -7.0, depth = 7
iter = 5961, queue = 8916, heur = -7.0, depth = 7
```

```
iter = 5962, queue = 8917, heur = -7.0, depth = 7
iter = 5963, queue = 8917, heur = -7.0, depth = 7
iter = 5964, queue = 8920, heur = -7.0, depth = 7
iter = 5965, queue = 8921, heur = -7.0, depth = 7
iter = 5966, queue = 8924, heur = -7.0, depth = 7
iter = 5967, queue = 8925, heur = -7.0, depth = 7
iter = 5968, queue = 8925, heur = -7.0, depth = 7
iter = 5969, queue = 8924, heur = -7.0, depth = 7
iter = 5970, queue = 8925, heur = -7.0, depth = 7
iter = 5971, queue = 8928, heur = -7.0, depth = 7
iter = 5972, queue = 8930, heur = -7.0, depth = 7
iter = 5973, queue = 8931, heur = -7.0, depth = 7
iter = 5974, queue = 8934, heur = -7.0, depth = 7
iter = 5975, queue = 8935, heur = -7.0, depth = 7
iter = 5976, queue = 8937, heur = -7.0, depth = 7
iter = 5977, queue = 8940, heur = -7.0, depth = 7
iter = 5978, queue = 8939, heur = -7.0, depth = 7
iter = 5979, queue = 8940, heur = -7.0, depth = 7
iter = 5980, queue = 8942, heur = -7.0, depth = 7
iter = 5981, queue = 8943, heur = -7.0, depth = 7
iter = 5982, queue = 8945, heur = -7.0, depth = 7
iter = 5983, queue = 8948, heur = -7.0, depth = 7
iter = 5984, queue = 8951, heur = -7.0, depth = 7
iter = 5985, queue = 8954, heur = -7.0, depth = 7
iter = 5986, queue = 8955, heur = -7.0, depth = 7
iter = 5987, queue = 8958, heur = -7.0, depth = 7
iter = 5988, queue = 8958, heur = -7.0, depth = 7
iter = 5989, queue = 8961, heur = -7.0, depth = 7
iter = 5990, queue = 8962, heur = -7.0, depth = 7
iter = 5991, queue = 8962, heur = -7.0, depth = 7
iter = 5992, queue = 8962, heur = -7.0, depth = 7
iter = 5993, queue = 8964, heur = -7.0, depth = 7
iter = 5994, queue = 8965, heur = -7.0, depth = 7
iter = 5995, queue = 8968, heur = -7.0, depth = 7
iter = 5996, queue = 8969, heur = -7.0, depth = 7
iter = 5997, queue = 8970, heur = -7.0, depth = 7
iter = 5998, queue = 8973, heur = -7.0, depth = 7
iter = 5999, queue = 8976, heur = -7.0, depth = 7
iter = 6000, queue = 8977, heur = -7.0, depth = 7
iter = 6001, queue = 8978, heur = -7.0, depth = 7
iter = 6002, queue = 8979, heur = -7.0, depth = 7
iter = 6003, queue = 8979, heur = -7.0, depth = 8
iter = 6004, queue = 8980, heur = -7.0, depth = 7
iter = 6005, queue = 8979, heur = -7.0, depth = 7
iter = 6006, queue = 8980, heur = -7.0, depth = 8
iter = 6007, queue = 8982, heur = -7.0, depth = 7
iter = 6008, queue = 8985, heur = -7.0, depth = 7
iter = 6009, queue = 8985, heur = -7.0, depth = 7
iter = 6010, queue = 8986, heur = -7.0, depth = 7
iter = 6011, queue = 8988, heur = -7.0, depth = 7
iter = 6012, queue = 8990, heur = -7.0, depth = 7
iter = 6013, queue = 8990, heur = -7.0, depth = 7
iter = 6014, queue = 8991, heur = -7.0, depth = 7
iter = 6015, queue = 8992, heur = -7.0, depth = 7
iter = 6016, queue = 8993, heur = -7.0, depth = 7
iter = 6017, queue = 8994, heur = -7.0, depth = 7
iter = 6018, queue = 8997, heur = -7.0, depth = 7
iter = 6019, queue = 8999, heur = -7.0, depth = 7
iter = 6020, queue = 8999, heur = -7.0, depth = 7
```

```
iter = 6021, queue = 9000, heur = -7.0, depth = 7
iter = 6022, queue = 9002, heur = -7.0, depth = 7
iter = 6023, queue = 9003, heur = -7.0, depth = 7
iter = 6024, queue = 9006, heur = -7.0, depth = 8
iter = 6025, queue = 9009, heur = -7.0, depth = 7
iter = 6026, queue = 9010, heur = -7.0, depth = 7
iter = 6027, queue = 9011, heur = -7.0, depth = 7
iter = 6028, queue = 9012, heur = -7.0, depth = 7
iter = 6029, queue = 9015, heur = -7.0, depth = 7
iter = 6030, queue = 9014, heur = -7.0, depth = 7
iter = 6031, queue = 9015, heur = -7.0, depth = 7
iter = 6032, queue = 9018, heur = -7.0, depth = 7
iter = 6033, queue = 9021, heur = -7.0, depth = 7
iter = 6034, queue = 9024, heur = -7.0, depth = 7
iter = 6035, queue = 9026, heur = -7.0, depth = 7
iter = 6036, queue = 9027, heur = -7.0, depth = 7
iter = 6037, queue = 9028, heur = -7.0, depth = 7
iter = 6038, queue = 9030, heur = -7.0, depth = 7
iter = 6039, queue = 9031, heur = -7.0, depth = 7
iter = 6040, queue = 9033, heur = -7.0, depth = 7
iter = 6041, queue = 9036, heur = -7.0, depth = 7
iter = 6042, queue = 9036, heur = -7.0, depth = 7
iter = 6043, queue = 9038, heur = -7.0, depth = 7
iter = 6044, queue = 9039, heur = -7.0, depth = 7
iter = 6045, queue = 9038, heur = -7.0, depth = 7
iter = 6046, queue = 9041, heur = -7.0, depth = 7
iter = 6047, queue = 9043, heur = -7.0, depth = 7
iter = 6048, queue = 9045, heur = -7.0, depth = 7
iter = 6049, queue = 9046, heur = -7.0, depth = 7
iter = 6050, queue = 9047, heur = -7.0, depth = 7
iter = 6051, queue = 9046, heur = -7.0, depth = 7
iter = 6052, queue = 9046, heur = -7.0, depth = 8
iter = 6053, queue = 9048, heur = -7.0, depth = 7
iter = 6054, queue = 9051, heur = -7.0, depth = 7
iter = 6055, queue = 9053, heur = -7.0, depth = 7
iter = 6056, queue = 9055, heur = -7.0, depth = 7
iter = 6057, queue = 9056, heur = -7.0, depth = 7
iter = 6058, queue = 9056, heur = -7.0, depth = 7
iter = 6059, queue = 9057, heur = -7.0, depth = 7
iter = 6060, queue = 9060, heur = -7.0, depth = 7
iter = 6061, queue = 9061, heur = -7.0, depth = 7
iter = 6062, queue = 9062, heur = -7.0, depth = 7
iter = 6063, queue = 9065, heur = -7.0, depth = 7
iter = 6064, queue = 9068, heur = -7.0, depth = 7
iter = 6065, queue = 9070, heur = -7.0, depth = 7
iter = 6066, queue = 9071, heur = -7.0, depth = 7
iter = 6067, queue = 9072, heur = -7.0, depth = 7
iter = 6068, queue = 9075, heur = -7.0, depth = 7
iter = 6069, queue = 9077, heur = -7.0, depth = 9
iter = 6070, queue = 9079, heur = -7.0, depth = 7
iter = 6071, queue = 9080, heur = -7.0, depth = 7
iter = 6072, queue = 9079, heur = -7.0, depth = 7
iter = 6073, queue = 9080, heur = -7.0, depth = 7
iter = 6074, queue = 9080, heur = -7.0, depth = 7
iter = 6075, queue = 9081, heur = -7.0, depth = 7
iter = 6076, queue = 9084, heur = -7.0, depth = 7
iter = 6077, queue = 9084, heur = -7.0, depth = 7
iter = 6078, queue = 9085, heur = -7.0, depth = 7
iter = 6079, queue = 9086, heur = -7.0, depth = 7
```

```
iter = 6080, queue = 9089, heur = -7.0, depth = 7
iter = 6081, queue = 9090, heur = -7.0, depth = 7
iter = 6082, queue = 9091, heur = -7.0, depth = 7
iter = 6083, queue = 9094, heur = -7.0, depth = 7
iter = 6084, queue = 9097, heur = -7.0, depth = 7
iter = 6085, queue = 9098, heur = -7.0, depth = 7
iter = 6086, queue = 9099, heur = -7.0, depth = 7
iter = 6087, queue = 9101, heur = -7.0, depth = 7
iter = 6088, queue = 9104, heur = -7.0, depth = 7
iter = 6089, queue = 9103, heur = -7.0, depth = 7
iter = 6090, queue = 9105, heur = -7.0, depth = 7
iter = 6091, queue = 9108, heur = -7.0, depth = 7
iter = 6092, queue = 9109, heur = -7.0, depth = 7
iter = 6093, queue = 9110, heur = -7.0, depth = 7
iter = 6094, queue = 9112, heur = -7.0, depth = 7
iter = 6095, queue = 9113, heur = -7.0, depth = 7
iter = 6096, queue = 9115, heur = -7.0, depth = 7
iter = 6097, queue = 9118, heur = -7.0, depth = 7
iter = 6098, queue = 9119, heur = -7.0, depth = 7
iter = 6099, queue = 9120, heur = -7.0, depth = 8
iter = 6100, queue = 9121, heur = -7.0, depth = 7
iter = 6101, queue = 9120, heur = -7.0, depth = 7
iter = 6102, queue = 9123, heur = -7.0, depth = 7
iter = 6103, queue = 9125, heur = -7.0, depth = 7
iter = 6104, queue = 9124, heur = -7.0, depth = 7
iter = 6105, queue = 9125, heur = -7.0, depth = 8
iter = 6106, queue = 9126, heur = -7.0, depth = 7
iter = 6107, queue = 9127, heur = -7.0, depth = 7
iter = 6108, queue = 9128, heur = -7.0, depth = 7
iter = 6109, queue = 9128, heur = -7.0, depth = 7
iter = 6110, queue = 9128, heur = -7.0, depth = 7
iter = 6111, queue = 9128, heur = -7.0, depth = 7
iter = 6112, queue = 9127, heur = -7.0, depth = 7
iter = 6113, queue = 9128, heur = -7.0, depth = 7
iter = 6114, queue = 9129, heur = -7.0, depth = 7
iter = 6115, queue = 9130, heur = -7.0, depth = 7
iter = 6116, queue = 9131, heur = -7.0, depth = 7
iter = 6117, queue = 9134, heur = -7.0, depth = 7
iter = 6118, queue = 9135, heur = -7.0, depth = 7
iter = 6119, queue = 9134, heur = -7.0, depth = 7
iter = 6120, queue = 9135, heur = -7.0, depth = 7
iter = 6121, queue = 9137, heur = -7.0, depth = 7
iter = 6122, queue = 9137, heur = -7.0, depth = 7
iter = 6123, queue = 9140, heur = -7.0, depth = 7
iter = 6124, queue = 9142, heur = -7.0, depth = 7
iter = 6125, queue = 9142, heur = -7.0, depth = 7
iter = 6126, queue = 9143, heur = -7.0, depth = 7
iter = 6127, queue = 9144, heur = -7.0, depth = 7
iter = 6128, queue = 9143, heur = -7.0, depth = 7
iter = 6129, queue = 9144, heur = -7.0, depth = 7
iter = 6130, queue = 9147, heur = -7.0, depth = 7
iter = 6131, queue = 9150, heur = -7.0, depth = 7
iter = 6132, queue = 9151, heur = -7.0, depth = 7
iter = 6133, queue = 9152, heur = -7.0, depth = 7
iter = 6134, queue = 9155, heur = -7.0, depth = 7
iter = 6135, queue = 9156, heur = -7.0, depth = 7
iter = 6136, queue = 9156, heur = -7.0, depth = 7
iter = 6137, queue = 9158, heur = -7.0, depth = 7
iter = 6138, queue = 9161, heur = -7.0, depth = 7
```

```
iter = 6139, queue = 9162, heur = -7.0, depth = 7
iter = 6140, queue = 9165, heur = -7.0, depth = 7
iter = 6141, queue = 9168, heur = -7.0, depth = 7
iter = 6142, queue = 9167, heur = -7.0, depth = 7
iter = 6143, queue = 9170, heur = -7.0, depth = 7
iter = 6144, queue = 9171, heur = -7.0, depth = 7
iter = 6145, queue = 9172, heur = -7.0, depth = 7
iter = 6146, queue = 9173, heur = -7.0, depth = 7
iter = 6147, queue = 9176, heur = -7.0, depth = 7
iter = 6148, queue = 9176, heur = -7.0, depth = 7
iter = 6149, queue = 9177, heur = -7.0, depth = 7
iter = 6150, queue = 9179, heur = -7.0, depth = 7
iter = 6151, queue = 9180, heur = -7.0, depth = 7
iter = 6152, queue = 9182, heur = -7.0, depth = 7
iter = 6153, queue = 9181, heur = -7.0, depth = 7
iter = 6154, queue = 9182, heur = -7.0, depth = 7
iter = 6155, queue = 9182, heur = -7.0, depth = 7
iter = 6156, queue = 9181, heur = -7.0, depth = 7
iter = 6157, queue = 9184, heur = -7.0, depth = 7
iter = 6158, queue = 9184, heur = -7.0, depth = 7
iter = 6159, queue = 9187, heur = -7.0, depth = 7
iter = 6160, queue = 9187, heur = -7.0, depth = 7
iter = 6161, queue = 9188, heur = -7.0, depth = 7
iter = 6162, queue = 9191, heur = -7.0, depth = 7
iter = 6163, queue = 9192, heur = -7.0, depth = 7
iter = 6164, queue = 9195, heur = -7.0, depth = 7
iter = 6165, queue = 9196, heur = -7.0, depth = 7
iter = 6166, queue = 9198, heur = -7.0, depth = 7
iter = 6167, queue = 9199, heur = -7.0, depth = 7
iter = 6168, queue = 9198, heur = -7.0, depth = 7
iter = 6169, queue = 9199, heur = -7.0, depth = 7
iter = 6170, queue = 9199, heur = -7.0, depth = 7
iter = 6171, queue = 9200, heur = -7.0, depth = 7
iter = 6172, queue = 9199, heur = -7.0, depth = 7
iter = 6173, queue = 9200, heur = -7.0, depth = 7
iter = 6174, queue = 9203, heur = -7.0, depth = 7
iter = 6175, queue = 9204, heur = -7.0, depth = 7
iter = 6176, queue = 9207, heur = -7.0, depth = 7
iter = 6177, queue = 9207, heur = -7.0, depth = 7
iter = 6178, queue = 9209, heur = -7.0, depth = 7
iter = 6179, queue = 9210, heur = -7.0, depth = 7
iter = 6180, queue = 9213, heur = -7.0, depth = 7
iter = 6181, queue = 9214, heur = -7.0, depth = 7
iter = 6182, queue = 9215, heur = -7.0, depth = 7
iter = 6183, queue = 9218, heur = -7.0, depth = 7
iter = 6184, queue = 9218, heur = -7.0, depth = 7
iter = 6185, queue = 9218, heur = -7.0, depth = 7
iter = 6186, queue = 9219, heur = -7.0, depth = 7
iter = 6187, queue = 9222, heur = -7.0, depth = 7
iter = 6188, queue = 9224, heur = -7.0, depth = 7
iter = 6189, queue = 9225, heur = -7.0, depth = 7
iter = 6190, queue = 9226, heur = -7.0, depth = 7
iter = 6191, queue = 9229, heur = -7.0, depth = 7
iter = 6192, queue = 9232, heur = -7.0, depth = 7
iter = 6193, queue = 9231, heur = -7.0, depth = 7
iter = 6194, queue = 9232, heur = -7.0, depth = 7
iter = 6195, queue = 9232, heur = -7.0, depth = 7
iter = 6196, queue = 9233, heur = -7.0, depth = 8
iter = 6197, queue = 9234, heur = -7.0, depth = 7
```

```
iter = 6198, queue = 9234, heur = -7.0, depth = 7
iter = 6199, queue = 9237, heur = -7.0, depth = 7
iter = 6200, queue = 9238, heur = -7.0, depth = 7
iter = 6201, queue = 9239, heur = -7.0, depth = 7
iter = 6202, queue = 9240, heur = -7.0, depth = 7
iter = 6203, queue = 9243, heur = -7.0, depth = 7
iter = 6204, queue = 9244, heur = -7.0, depth = 7
iter = 6205, queue = 9245, heur = -7.0, depth = 7
iter = 6206, queue = 9246, heur = -7.0, depth = 7
iter = 6207, queue = 9249, heur = -7.0, depth = 7
iter = 6208, queue = 9252, heur = -7.0, depth = 7
iter = 6209, queue = 9255, heur = -7.0, depth = 7
iter = 6210, queue = 9255, heur = -7.0, depth = 7
iter = 6211, queue = 9254, heur = -7.0, depth = 7
iter = 6212, queue = 9255, heur = -7.0, depth = 7
iter = 6213, queue = 9255, heur = -7.0, depth = 7
iter = 6214, queue = 9258, heur = -7.0, depth = 7
iter = 6215, queue = 9259, heur = -7.0, depth = 7
iter = 6216, queue = 9260, heur = -7.0, depth = 7
iter = 6217, queue = 9261, heur = -7.0, depth = 8
iter = 6218, queue = 9262, heur = -7.0, depth = 7
iter = 6219, queue = 9263, heur = -7.0, depth = 7
iter = 6220, queue = 9264, heur = -7.0, depth = 7
iter = 6221, queue = 9264, heur = -7.0, depth = 8
iter = 6222, queue = 9266, heur = -7.0, depth = 7
iter = 6223, queue = 9267, heur = -7.0, depth = 7
iter = 6224, queue = 9270, heur = -7.0, depth = 7
iter = 6225, queue = 9269, heur = -7.0, depth = 7
iter = 6226, queue = 9272, heur = -7.0, depth = 7
iter = 6227, queue = 9275, heur = -7.0, depth = 7
iter = 6228, queue = 9278, heur = -7.0, depth = 7
iter = 6229, queue = 9279, heur = -7.0, depth = 7
iter = 6230, queue = 9282, heur = -7.0, depth = 7
iter = 6231, queue = 9282, heur = -7.0, depth = 7
iter = 6232, queue = 9283, heur = -7.0, depth = 7
iter = 6233, queue = 9284, heur = -7.0, depth = 7
iter = 6234, queue = 9286, heur = -7.0, depth = 7
iter = 6235, queue = 9287, heur = -7.0, depth = 7
iter = 6236, queue = 9290, heur = -7.0, depth = 7
iter = 6237, queue = 9291, heur = -7.0, depth = 7
iter = 6238, queue = 9294, heur = -7.0, depth = 7
iter = 6239, queue = 9295, heur = -7.0, depth = 7
iter = 6240, queue = 9295, heur = -7.0, depth = 7
iter = 6241, queue = 9296, heur = -7.0, depth = 7
iter = 6242, queue = 9297, heur = -7.0, depth = 7
iter = 6243, queue = 9296, heur = -7.0, depth = 7
iter = 6244, queue = 9295, heur = -7.0, depth = 7
iter = 6245, queue = 9297, heur = -7.0, depth = 7
iter = 6246, queue = 9300, heur = -7.0, depth = 7
iter = 6247, queue = 9300, heur = -7.0, depth = 7
iter = 6248, queue = 9302, heur = -7.0, depth = 7
iter = 6249, queue = 9303, heur = -7.0, depth = 7
iter = 6250, queue = 9306, heur = -7.0, depth = 7
iter = 6251, queue = 9309, heur = -7.0, depth = 7
iter = 6252, queue = 9312, heur = -7.0, depth = 7
iter = 6253, queue = 9313, heur = -7.0, depth = 7
iter = 6254, queue = 9315, heur = -7.0, depth = 7
iter = 6255, queue = 9318, heur = -7.0, depth = 7
iter = 6256, queue = 9319, heur = -7.0, depth = 7
```

```
iter = 6257, queue = 9322, heur = -7.0, depth = 7
iter = 6258, queue = 9324, heur = -7.0, depth = 7
iter = 6259, queue = 9327, heur = -7.0, depth = 7
iter = 6260, queue = 9330, heur = -7.0, depth = 7
iter = 6261, queue = 9331, heur = -7.0, depth = 7
iter = 6262, queue = 9332, heur = -7.0, depth = 7
iter = 6263, queue = 9333, heur = -7.0, depth = 7
iter = 6264, queue = 9334, heur = -7.0, depth = 7
iter = 6265, queue = 9335, heur = -7.0, depth = 7
iter = 6266, queue = 9338, heur = -7.0, depth = 7
iter = 6267, queue = 9340, heur = -7.0, depth = 7
iter = 6268, queue = 9341, heur = -7.0, depth = 7
iter = 6269, queue = 9342, heur = -7.0, depth = 7
iter = 6270, queue = 9345, heur = -7.0, depth = 7
iter = 6271, queue = 9346, heur = -7.0, depth = 7
iter = 6272, queue = 9349, heur = -7.0, depth = 7
iter = 6273, queue = 9350, heur = -7.0, depth = 7
iter = 6274, queue = 9353, heur = -7.0, depth = 7
iter = 6275, queue = 9354, heur = -7.0, depth = 7
iter = 6276, queue = 9357, heur = -7.0, depth = 7
iter = 6277, queue = 9358, heur = -7.0, depth = 7
iter = 6278, queue = 9359, heur = -7.0, depth = 7
iter = 6279, queue = 9358, heur = -7.0, depth = 7
iter = 6280, queue = 9361, heur = -7.0, depth = 7
iter = 6281, queue = 9364, heur = -7.0, depth = 7
iter = 6282, queue = 9366, heur = -7.0, depth = 7
iter = 6283, queue = 9369, heur = -7.0, depth = 7
iter = 6284, queue = 9370, heur = -7.0, depth = 7
iter = 6285, queue = 9371, heur = -7.0, depth = 7
iter = 6286, queue = 9370, heur = -7.0, depth = 7
iter = 6287, queue = 9369, heur = -7.0, depth = 7
iter = 6288, queue = 9370, heur = -7.0, depth = 7
iter = 6289, queue = 9371, heur = -7.0, depth = 7
iter = 6290, queue = 9372, heur = -7.0, depth = 7
iter = 6291, queue = 9373, heur = -7.0, depth = 7
iter = 6292, queue = 9374, heur = -7.0, depth = 7
iter = 6293, queue = 9375, heur = -7.0, depth = 7
iter = 6294, queue = 9378, heur = -7.0, depth = 7
iter = 6295, queue = 9378, heur = -7.0, depth = 7
iter = 6296, queue = 9379, heur = -7.0, depth = 7
iter = 6297, queue = 9381, heur = -7.0, depth = 7
iter = 6298, queue = 9382, heur = -7.0, depth = 7
iter = 6299, queue = 9383, heur = -7.0, depth = 7
iter = 6300, queue = 9383, heur = -7.0, depth = 7
iter = 6301, queue = 9384, heur = -7.0, depth = 7
iter = 6302, queue = 9387, heur = -7.0, depth = 7
iter = 6303, queue = 9388, heur = -7.0, depth = 7
iter = 6304, queue = 9389, heur = -7.0, depth = 7
iter = 6305, queue = 9390, heur = -7.0, depth = 7
iter = 6306, queue = 9393, heur = -7.0, depth = 7
iter = 6307, queue = 9392, heur = -7.0, depth = 7
iter = 6308, queue = 9394, heur = -7.0, depth = 7
iter = 6309, queue = 9394, heur = -7.0, depth = 7
iter = 6310, queue = 9397, heur = -7.0, depth = 7
iter = 6311, queue = 9400, heur = -7.0, depth = 7
iter = 6312, queue = 9403, heur = -7.0, depth = 7
iter = 6313, queue = 9406, heur = -7.0, depth = 7
iter = 6314, queue = 9407, heur = -7.0, depth = 7
iter = 6315, queue = 9408, heur = -7.0, depth = 7
```

```
iter = 6316, queue = 9411, heur = -7.0, depth = 7
iter = 6317, queue = 9412, heur = -7.0, depth = 7
iter = 6318, queue = 9415, heur = -7.0, depth = 7
iter = 6319, queue = 9418, heur = -7.0, depth = 7
iter = 6320, queue = 9421, heur = -7.0, depth = 7
iter = 6321, queue = 9422, heur = -7.0, depth = 7
iter = 6322, queue = 9425, heur = -7.0, depth = 7
iter = 6323, queue = 9426, heur = -7.0, depth = 7
iter = 6324, queue = 9429, heur = -7.0, depth = 7
iter = 6325, queue = 9430, heur = -7.0, depth = 7
iter = 6326, queue = 9431, heur = -7.0, depth = 7
iter = 6327, queue = 9432, heur = -7.0, depth = 7
iter = 6328, queue = 9433, heur = -7.0, depth = 7
iter = 6329, queue = 9434, heur = -7.0, depth = 7
iter = 6330, queue = 9435, heur = -7.0, depth = 7
iter = 6331, queue = 9434, heur = -7.0, depth = 7
iter = 6332, queue = 9433, heur = -7.0, depth = 8
iter = 6333, queue = 9434, heur = -7.0, depth = 7
iter = 6334, queue = 9437, heur = -7.0, depth = 7
iter = 6335, queue = 9440, heur = -7.0, depth = 7
iter = 6336, queue = 9441, heur = -7.0, depth = 7
iter = 6337, queue = 9444, heur = -7.0, depth = 7
iter = 6338, queue = 9446, heur = -7.0, depth = 7
iter = 6339, queue = 9449, heur = -7.0, depth = 7
iter = 6340, queue = 9450, heur = -7.0, depth = 7
iter = 6341, queue = 9452, heur = -7.0, depth = 7
iter = 6342, queue = 9453, heur = -7.0, depth = 7
iter = 6343, queue = 9456, heur = -7.0, depth = 7
iter = 6344, queue = 9459, heur = -7.0, depth = 7
iter = 6345, queue = 9462, heur = -7.0, depth = 7
iter = 6346, queue = 9463, heur = -7.0, depth = 7
iter = 6347, queue = 9465, heur = -7.0, depth = 7
iter = 6348, queue = 9465, heur = -7.0, depth = 7
iter = 6349, queue = 9466, heur = -7.0, depth = 7
iter = 6350, queue = 9469, heur = -7.0, depth = 7
iter = 6351, queue = 9471, heur = -7.0, depth = 7
iter = 6352, queue = 9474, heur = -7.0, depth = 7
iter = 6353, queue = 9477, heur = -7.0, depth = 9
iter = 6354, queue = 9479, heur = -7.0, depth = 7
iter = 6355, queue = 9480, heur = -7.0, depth = 7
iter = 6356, queue = 9483, heur = -7.0, depth = 7
iter = 6357, queue = 9484, heur = -7.0, depth = 7
iter = 6358, queue = 9486, heur = -7.0, depth = 7
iter = 6359, queue = 9489, heur = -7.0, depth = 7
iter = 6360, queue = 9490, heur = -7.0, depth = 9
iter = 6361, queue = 9491, heur = -7.0, depth = 7
iter = 6362, queue = 9492, heur = -7.0, depth = 7
iter = 6363, queue = 9493, heur = -7.0, depth = 7
iter = 6364, queue = 9495, heur = -7.0, depth = 7
iter = 6365, queue = 9496, heur = -7.0, depth = 7
iter = 6366, queue = 9497, heur = -7.0, depth = 7
iter = 6367, queue = 9498, heur = -7.0, depth = 7
iter = 6368, queue = 9499, heur = -7.0, depth = 7
iter = 6369, queue = 9501, heur = -7.0, depth = 7
iter = 6370, queue = 9502, heur = -7.0, depth = 7
iter = 6371, queue = 9505, heur = -7.0, depth = 7
iter = 6372, queue = 9508, heur = -7.0, depth = 7
iter = 6373, queue = 9508, heur = -7.0, depth = 7
iter = 6374, queue = 9509, heur = -7.0, depth = 7
```

```
iter = 6375, queue = 9510, heur = -7.0, depth = 7
iter = 6376, queue = 9513, heur = -7.0, depth = 7
iter = 6377, queue = 9514, heur = -7.0, depth = 7
iter = 6378, queue = 9515, heur = -7.0, depth = 7
iter = 6379, queue = 9516, heur = -7.0, depth = 7
iter = 6380, queue = 9517, heur = -7.0, depth = 7
iter = 6381, queue = 9519, heur = -7.0, depth = 7
iter = 6382, queue = 9520, heur = -7.0, depth = 7
iter = 6383, queue = 9521, heur = -7.0, depth = 7
iter = 6384, queue = 9524, heur = -7.0, depth = 7
iter = 6385, queue = 9523, heur = -7.0, depth = 7
iter = 6386, queue = 9524, heur = -7.0, depth = 7
iter = 6387, queue = 9525, heur = -7.0, depth = 7
iter = 6388, queue = 9527, heur = -7.0, depth = 7
iter = 6389, queue = 9530, heur = -7.0, depth = 7
iter = 6390, queue = 9530, heur = -7.0, depth = 7
iter = 6391, queue = 9533, heur = -7.0, depth = 7
iter = 6392, queue = 9536, heur = -7.0, depth = 7
iter = 6393, queue = 9538, heur = -7.0, depth = 7
iter = 6394, queue = 9541, heur = -7.0, depth = 7
iter = 6395, queue = 9544, heur = -7.0, depth = 7
iter = 6396, queue = 9547, heur = -7.0, depth = 7
iter = 6397, queue = 9550, heur = -7.0, depth = 7
iter = 6398, queue = 9552, heur = -7.0, depth = 7
iter = 6399, queue = 9554, heur = -7.0, depth = 7
iter = 6400, queue = 9555, heur = -7.0, depth = 7
iter = 6401, queue = 9557, heur = -7.0, depth = 7
iter = 6402, queue = 9559, heur = -7.0, depth = 7
iter = 6403, queue = 9560, heur = -7.0, depth = 7
iter = 6404, queue = 9561, heur = -7.0, depth = 7
iter = 6405, queue = 9564, heur = -7.0, depth = 7
iter = 6406, queue = 9565, heur = -7.0, depth = 7
iter = 6407, queue = 9567, heur = -7.0, depth = 7
iter = 6408, queue = 9569, heur = -7.0, depth = 7
iter = 6409, queue = 9570, heur = -7.0, depth = 7
iter = 6410, queue = 9571, heur = -7.0, depth = 7
iter = 6411, queue = 9572, heur = -7.0, depth = 7
iter = 6412, queue = 9571, heur = -7.0, depth = 7
iter = 6413, queue = 9574, heur = -7.0, depth = 7
iter = 6414, queue = 9576, heur = -7.0, depth = 7
iter = 6415, queue = 9579, heur = -7.0, depth = 7
iter = 6416, queue = 9578, heur = -7.0, depth = 7
iter = 6417, queue = 9579, heur = -7.0, depth = 7
iter = 6418, queue = 9580, heur = -7.0, depth = 7
iter = 6419, queue = 9581, heur = -7.0, depth = 7
iter = 6420, queue = 9583, heur = -7.0, depth = 7
iter = 6421, queue = 9584, heur = -7.0, depth = 7
iter = 6422, queue = 9585, heur = -7.0, depth = 7
iter = 6423, queue = 9587, heur = -7.0, depth = 7
iter = 6424, queue = 9590, heur = -7.0, depth = 7
iter = 6425, queue = 9593, heur = -7.0, depth = 7
iter = 6426, queue = 9594, heur = -7.0, depth = 7
iter = 6427, queue = 9597, heur = -7.0, depth = 7
iter = 6428, queue = 9600, heur = -7.0, depth = 9
iter = 6429, queue = 9601, heur = -7.0, depth = 7
iter = 6430, queue = 9602, heur = -7.0, depth = 7
iter = 6431, queue = 9605, heur = -7.0, depth = 7
iter = 6432, queue = 9605, heur = -7.0, depth = 7
iter = 6433, queue = 9606, heur = -7.0, depth = 7
```

```
iter = 6434, queue = 9609, heur = -7.0, depth = 7
iter = 6435, queue = 9612, heur = -7.0, depth = 7
iter = 6436, queue = 9614, heur = -7.0, depth = 7
iter = 6437, queue = 9615, heur = -7.0, depth = 7
iter = 6438, queue = 9616, heur = -7.0, depth = 10
iter = 6439, queue = 9618, heur = -7.0, depth = 10
iter = 6440, queue = 9621, heur = -7.0, depth = 7
iter = 6441, queue = 9624, heur = -7.0, depth = 10
iter = 6442, queue = 9627, heur = -7.0, depth = 9
iter = 6443, queue = 9630, heur = -7.0, depth = 7
iter = 6444, queue = 9631, heur = -7.0, depth = 7
iter = 6445, queue = 9631, heur = -7.0, depth = 9
iter = 6446, queue = 9633, heur = -7.0, depth = 7
iter = 6447, queue = 9632, heur = -7.0, depth = 7
iter = 6448, queue = 9633, heur = -7.0, depth = 7
iter = 6449, queue = 9636, heur = -7.0, depth = 7
iter = 6450, queue = 9637, heur = -7.0, depth = 7
iter = 6451, queue = 9638, heur = -7.0, depth = 7
iter = 6452, queue = 9637, heur = -7.0, depth = 7
iter = 6453, queue = 9639, heur = -7.0, depth = 8
iter = 6454, queue = 9640, heur = -7.0, depth = 7
iter = 6455, queue = 9641, heur = -7.0, depth = 7
iter = 6456, queue = 9642, heur = -7.0, depth = 7
iter = 6457, queue = 9643, heur = -7.0, depth = 7
iter = 6458, queue = 9644, heur = -7.0, depth = 7
iter = 6459, queue = 9645, heur = -7.0, depth = 7
iter = 6460, queue = 9647, heur = -7.0, depth = 7
iter = 6461, queue = 9648, heur = -7.0, depth = 7
iter = 6462, queue = 9650, heur = -7.0, depth = 7
iter = 6463, queue = 9651, heur = -7.0, depth = 7
iter = 6464, queue = 9653, heur = -7.0, depth = 7
iter = 6465, queue = 9654, heur = -7.0, depth = 7
iter = 6466, queue = 9654, heur = -7.0, depth = 7
iter = 6467, queue = 9655, heur = -7.0, depth = 7
iter = 6468, queue = 9655, heur = -7.0, depth = 7
iter = 6469, queue = 9657, heur = -7.0, depth = 7
iter = 6470, queue = 9658, heur = -7.0, depth = 7
iter = 6471, queue = 9659, heur = -7.0, depth = 7
iter = 6472, queue = 9660, heur = -7.0, depth = 7
iter = 6473, queue = 9659, heur = -7.0, depth = 7
iter = 6474, queue = 9660, heur = -7.0, depth = 7
iter = 6475, queue = 9663, heur = -7.0, depth = 7
iter = 6476, queue = 9664, heur = -7.0, depth = 7
iter = 6477, queue = 9666, heur = -7.0, depth = 7
iter = 6478, queue = 9669, heur = -7.0, depth = 7
iter = 6479, queue = 9672, heur = -7.0, depth = 7
iter = 6480, queue = 9673, heur = -7.0, depth = 7
iter = 6481, queue = 9676, heur = -7.0, depth = 7
iter = 6482, queue = 9675, heur = -7.0, depth = 7
iter = 6483, queue = 9674, heur = -7.0, depth = 7
iter = 6484, queue = 9673, heur = -7.0, depth = 7
iter = 6485, queue = 9675, heur = -7.0, depth = 7
iter = 6486, queue = 9677, heur = -7.0, depth = 7
iter = 6487, queue = 9680, heur = -7.0, depth = 7
iter = 6488, queue = 9680, heur = -7.0, depth = 7
iter = 6489, queue = 9683, heur = -7.0, depth = 7
iter = 6490, queue = 9686, heur = -7.0, depth = 7
iter = 6491, queue = 9687, heur = -7.0, depth = 8
iter = 6492, queue = 9687, heur = -7.0, depth = 7
```

```
iter = 6493, queue = 9689, heur = -7.0, depth = 7
iter = 6494, queue = 9691, heur = -7.0, depth = 7
iter = 6495, queue = 9692, heur = -7.0, depth = 7
iter = 6496, queue = 9695, heur = -7.0, depth = 7
iter = 6497, queue = 9698, heur = -7.0, depth = 7
iter = 6498, queue = 9701, heur = -7.0, depth = 7
iter = 6499, queue = 9702, heur = -7.0, depth = 7
iter = 6500, queue = 9702, heur = -7.0, depth = 7
iter = 6501, queue = 9703, heur = -7.0, depth = 7
iter = 6502, queue = 9704, heur = -7.0, depth = 7
iter = 6503, queue = 9707, heur = -7.0, depth = 7
iter = 6504, queue = 9708, heur = -7.0, depth = 7
iter = 6505, queue = 9709, heur = -7.0, depth = 7
iter = 6506, queue = 9708, heur = -7.0, depth = 7
iter = 6507, queue = 9709, heur = -7.0, depth = 7
iter = 6508, queue = 9712, heur = -7.0, depth = 7
iter = 6509, queue = 9712, heur = -7.0, depth = 7
iter = 6510, queue = 9712, heur = -7.0, depth = 7
iter = 6511, queue = 9715, heur = -7.0, depth = 7
iter = 6512, queue = 9718, heur = -7.0, depth = 7
iter = 6513, queue = 9718, heur = -7.0, depth = 7
iter = 6514, queue = 9721, heur = -7.0, depth = 7
iter = 6515, queue = 9721, heur = -7.0, depth = 7
iter = 6516, queue = 9721, heur = -7.0, depth = 7
iter = 6517, queue = 9722, heur = -7.0, depth = 7
iter = 6518, queue = 9723, heur = -7.0, depth = 7
iter = 6519, queue = 9724, heur = -7.0, depth = 7
iter = 6520, queue = 9725, heur = -7.0, depth = 7
iter = 6521, queue = 9726, heur = -7.0, depth = 7
iter = 6522, queue = 9729, heur = -7.0, depth = 7
iter = 6523, queue = 9732, heur = -7.0, depth = 7
iter = 6524, queue = 9734, heur = -7.0, depth = 7
iter = 6525, queue = 9735, heur = -7.0, depth = 7
iter = 6526, queue = 9738, heur = -7.0, depth = 7
iter = 6527, queue = 9741, heur = -7.0, depth = 7
iter = 6528, queue = 9743, heur = -7.0, depth = 7
iter = 6529, queue = 9745, heur = -7.0, depth = 7
iter = 6530, queue = 9746, heur = -7.0, depth = 7
iter = 6531, queue = 9745, heur = -7.0, depth = 7
iter = 6532, queue = 9747, heur = -7.0, depth = 7
iter = 6533, queue = 9750, heur = -7.0, depth = 7
iter = 6534, queue = 9749, heur = -7.0, depth = 7
iter = 6535, queue = 9752, heur = -7.0, depth = 7
iter = 6536, queue = 9755, heur = -7.0, depth = 7
iter = 6537, queue = 9756, heur = -7.0, depth = 7
iter = 6538, queue = 9756, heur = -7.0, depth = 7
iter = 6539, queue = 9757, heur = -7.0, depth = 7
iter = 6540, queue = 9758, heur = -7.0, depth = 7
iter = 6541, queue = 9761, heur = -7.0, depth = 7
iter = 6542, queue = 9760, heur = -7.0, depth = 7
iter = 6543, queue = 9763, heur = -7.0, depth = 7
iter = 6544, queue = 9763, heur = -7.0, depth = 7
iter = 6545, queue = 9765, heur = -7.0, depth = 7
iter = 6546, queue = 9766, heur = -7.0, depth = 7
iter = 6547, queue = 9766, heur = -7.0, depth = 7
iter = 6548, queue = 9769, heur = -7.0, depth = 7
iter = 6549, queue = 9770, heur = -7.0, depth = 7
iter = 6550, queue = 9773, heur = -7.0, depth = 7
iter = 6551, queue = 9772, heur = -7.0, depth = 7
```

```
iter = 6552, queue = 9773, heur = -7.0, depth = 7
iter = 6553, queue = 9773, heur = -7.0, depth = 7
iter = 6554, queue = 9774, heur = -7.0, depth = 7
iter = 6555, queue = 9775, heur = -7.0, depth = 7
iter = 6556, queue = 9775, heur = -7.0, depth = 7
iter = 6557, queue = 9778, heur = -7.0, depth = 7
iter = 6558, queue = 9779, heur = -7.0, depth = 7
iter = 6559, queue = 9780, heur = -7.0, depth = 7
iter = 6560, queue = 9781, heur = -7.0, depth = 7
iter = 6561, queue = 9782, heur = -7.0, depth = 7
iter = 6562, queue = 9782, heur = -7.0, depth = 7
iter = 6563, queue = 9784, heur = -7.0, depth = 7
iter = 6564, queue = 9785, heur = -7.0, depth = 7
iter = 6565, queue = 9786, heur = -7.0, depth = 7
iter = 6566, queue = 9787, heur = -7.0, depth = 7
iter = 6567, queue = 9786, heur = -7.0, depth = 7
iter = 6568, queue = 9789, heur = -7.0, depth = 7
iter = 6569, queue = 9790, heur = -7.0, depth = 7
iter = 6570, queue = 9793, heur = -7.0, depth = 7
iter = 6571, queue = 9794, heur = -7.0, depth = 7
iter = 6572, queue = 9796, heur = -7.0, depth = 7
iter = 6573, queue = 9796, heur = -7.0, depth = 7
iter = 6574, queue = 9797, heur = -7.0, depth = 7
iter = 6575, queue = 9799, heur = -7.0, depth = 7
iter = 6576, queue = 9800, heur = -7.0, depth = 7
iter = 6577, queue = 9803, heur = -7.0, depth = 7
iter = 6578, queue = 9805, heur = -7.0, depth = 7
iter = 6579, queue = 9805, heur = -7.0, depth = 7
iter = 6580, queue = 9804, heur = -7.0, depth = 7
iter = 6581, queue = 9807, heur = -7.0, depth = 7
iter = 6582, queue = 9808, heur = -7.0, depth = 7
iter = 6583, queue = 9809, heur = -7.0, depth = 7
iter = 6584, queue = 9810, heur = -7.0, depth = 7
iter = 6585, queue = 9810, heur = -7.0, depth = 7
iter = 6586, queue = 9813, heur = -7.0, depth = 7
iter = 6587, queue = 9816, heur = -7.0, depth = 7
iter = 6588, queue = 9818, heur = -7.0, depth = 7
iter = 6589, queue = 9818, heur = -7.0, depth = 7
iter = 6590, queue = 9819, heur = -7.0, depth = 7
iter = 6591, queue = 9820, heur = -7.0, depth = 7
iter = 6592, queue = 9822, heur = -7.0, depth = 7
iter = 6593, queue = 9824, heur = -7.0, depth = 7
iter = 6594, queue = 9824, heur = -7.0, depth = 7
iter = 6595, queue = 9824, heur = -7.0, depth = 7
iter = 6596, queue = 9826, heur = -7.0, depth = 7
iter = 6597, queue = 9826, heur = -7.0, depth = 7
iter = 6598, queue = 9827, heur = -7.0, depth = 7
iter = 6599, queue = 9828, heur = -7.0, depth = 7
iter = 6600, queue = 9829, heur = -7.0, depth = 7
iter = 6601, queue = 9832, heur = -7.0, depth = 7
iter = 6602, queue = 9833, heur = -7.0, depth = 7
iter = 6603, queue = 9836, heur = -7.0, depth = 7
iter = 6604, queue = 9836, heur = -7.0, depth = 7
iter = 6605, queue = 9837, heur = -7.0, depth = 7
iter = 6606, queue = 9838, heur = -7.0, depth = 7
iter = 6607, queue = 9841, heur = -7.0, depth = 7
iter = 6608, queue = 9842, heur = -7.0, depth = 7
iter = 6609, queue = 9843, heur = -7.0, depth = 8
iter = 6610, queue = 9846, heur = -7.0, depth = 8
```

```
iter = 6611, queue = 9849, heur = -7.0, depth = 7
iter = 6612, queue = 9848, heur = -7.0, depth = 7
iter = 6613, queue = 9850, heur = -7.0, depth = 7
iter = 6614, queue = 9849, heur = -7.0, depth = 7
iter = 6615, queue = 9850, heur = -7.0, depth = 7
iter = 6616, queue = 9850, heur = -7.0, depth = 7
iter = 6617, queue = 9853, heur = -7.0, depth = 7
iter = 6618, queue = 9853, heur = -7.0, depth = 7
iter = 6619, queue = 9854, heur = -7.0, depth = 7
iter = 6620, queue = 9855, heur = -7.0, depth = 7
iter = 6621, queue = 9858, heur = -7.0, depth = 7
iter = 6622, queue = 9858, heur = -7.0, depth = 7
iter = 6623, queue = 9861, heur = -7.0, depth = 7
iter = 6624, queue = 9862, heur = -7.0, depth = 7
iter = 6625, queue = 9865, heur = -7.0, depth = 7
iter = 6626, queue = 9868, heur = -7.0, depth = 7
iter = 6627, queue = 9871, heur = -7.0, depth = 7
iter = 6628, queue = 9874, heur = -7.0, depth = 7
iter = 6629, queue = 9875, heur = -7.0, depth = 7
iter = 6630, queue = 9876, heur = -7.0, depth = 7
iter = 6631, queue = 9875, heur = -7.0, depth = 7
iter = 6632, queue = 9878, heur = -7.0, depth = 7
iter = 6633, queue = 9879, heur = -7.0, depth = 7
iter = 6634, queue = 9882, heur = -7.0, depth = 7
iter = 6635, queue = 9881, heur = -7.0, depth = 7
iter = 6636, queue = 9882, heur = -7.0, depth = 7
iter = 6637, queue = 9885, heur = -7.0, depth = 7
iter = 6638, queue = 9884, heur = -7.0, depth = 7
iter = 6639, queue = 9884, heur = -7.0, depth = 7
iter = 6640, queue = 9887, heur = -7.0, depth = 7
iter = 6641, queue = 9887, heur = -7.0, depth = 7
iter = 6642, queue = 9888, heur = -7.0, depth = 7
iter = 6643, queue = 9889, heur = -7.0, depth = 7
iter = 6644, queue = 9890, heur = -7.0, depth = 7
iter = 6645, queue = 9891, heur = -7.0, depth = 7
iter = 6646, queue = 9892, heur = -7.0, depth = 7
iter = 6647, queue = 9894, heur = -7.0, depth = 7
iter = 6648, queue = 9893, heur = -7.0, depth = 7
iter = 6649, queue = 9896, heur = -7.0, depth = 7
iter = 6650, queue = 9899, heur = -7.0, depth = 7
iter = 6651, queue = 9899, heur = -7.0, depth = 7
iter = 6652, queue = 9900, heur = -7.0, depth = 7
iter = 6653, queue = 9900, heur = -7.0, depth = 7
iter = 6654, queue = 9902, heur = -7.0, depth = 7
iter = 6655, queue = 9902, heur = -7.0, depth = 7
iter = 6656, queue = 9903, heur = -7.0, depth = 7
iter = 6657, queue = 9906, heur = -7.0, depth = 7
iter = 6658, queue = 9907, heur = -7.0, depth = 7
iter = 6659, queue = 9908, heur = -7.0, depth = 7
iter = 6660, queue = 9911, heur = -7.0, depth = 7
iter = 6661, queue = 9914, heur = -7.0, depth = 8
iter = 6662, queue = 9915, heur = -7.0, depth = 7
iter = 6663, queue = 9916, heur = -7.0, depth = 7
iter = 6664, queue = 9919, heur = -7.0, depth = 7
iter = 6665, queue = 9922, heur = -7.0, depth = 7
iter = 6666, queue = 9925, heur = -7.0, depth = 7
iter = 6667, queue = 9926, heur = -7.0, depth = 7
iter = 6668, queue = 9928, heur = -7.0, depth = 7
iter = 6669, queue = 9931, heur = -7.0, depth = 7
```

```
iter = 6670, queue = 9932, heur = -7.0, depth = 7
iter = 6671, queue = 9935, heur = -7.0, depth = 7
iter = 6672, queue = 9936, heur = -7.0, depth = 7
iter = 6673, queue = 9937, heur = -7.0, depth = 7
iter = 6674, queue = 9937, heur = -7.0, depth = 7
iter = 6675, queue = 9940, heur = -7.0, depth = 7
iter = 6676, queue = 9939, heur = -7.0, depth = 8
iter = 6677, queue = 9942, heur = -7.0, depth = 7
iter = 6678, queue = 9943, heur = -7.0, depth = 7
iter = 6679, queue = 9944, heur = -7.0, depth = 7
iter = 6680, queue = 9945, heur = -7.0, depth = 7
iter = 6681, queue = 9948, heur = -7.0, depth = 7
iter = 6682, queue = 9949, heur = -7.0, depth = 7
iter = 6683, queue = 9950, heur = -7.0, depth = 7
iter = 6684, queue = 9951, heur = -7.0, depth = 7
iter = 6685, queue = 9952, heur = -7.0, depth = 7
iter = 6686, queue = 9953, heur = -7.0, depth = 7
iter = 6687, queue = 9953, heur = -7.0, depth = 7
iter = 6688, queue = 9954, heur = -7.0, depth = 7
iter = 6689, queue = 9956, heur = -7.0, depth = 7
iter = 6690, queue = 9957, heur = -7.0, depth = 7
iter = 6691, queue = 9960, heur = -7.0, depth = 9
iter = 6692, queue = 9961, heur = -7.0, depth = 7
iter = 6693, queue = 9961, heur = -7.0, depth = 7
iter = 6694, queue = 9964, heur = -7.0, depth = 7
iter = 6695, queue = 9967, heur = -7.0, depth = 7
iter = 6696, queue = 9968, heur = -7.0, depth = 7
iter = 6697, queue = 9969, heur = -7.0, depth = 7
iter = 6698, queue = 9971, heur = -7.0, depth = 7
iter = 6699, queue = 9972, heur = -7.0, depth = 7
iter = 6700, queue = 9972, heur = -7.0, depth = 7
iter = 6701, queue = 9972, heur = -7.0, depth = 7
iter = 6702, queue = 9972, heur = -7.0, depth = 7
iter = 6703, queue = 9975, heur = -7.0, depth = 7
iter = 6704, queue = 9974, heur = -7.0, depth = 7
iter = 6705, queue = 9977, heur = -7.0, depth = 7
iter = 6706, queue = 9978, heur = -7.0, depth = 7
iter = 6707, queue = 9979, heur = -7.0, depth = 7
iter = 6708, queue = 9980, heur = -7.0, depth = 10
iter = 6709, queue = 9982, heur = -7.0, depth = 7
iter = 6710, queue = 9985, heur = -7.0, depth = 7
iter = 6711, queue = 9987, heur = -7.0, depth = 7
iter = 6712, queue = 9988, heur = -7.0, depth = 7
iter = 6713, queue = 9989, heur = -7.0, depth = 7
iter = 6714, queue = 9992, heur = -7.0, depth = 7
iter = 6715, queue = 9995, heur = -7.0, depth = 7
iter = 6716, queue = 9998, heur = -7.0, depth = 7
iter = 6717, queue = 10000, heur = -7.0, depth = 7
iter = 6718, queue = 10001, heur = -7.0, depth = 7
iter = 6719, queue = 10004, heur = -7.0, depth = 7
iter = 6720, queue = 10007, heur = -7.0, depth = 7
iter = 6721, queue = 10008, heur = -7.0, depth = 7
iter = 6722, queue = 10010, heur = -7.0, depth = 7
iter = 6723, queue = 10012, heur = -7.0, depth = 7
iter = 6724, queue = 10013, heur = -7.0, depth = 7
iter = 6725, queue = 10016, heur = -7.0, depth = 7
iter = 6726, queue = 10017, heur = -7.0, depth = 7
iter = 6727, queue = 10017, heur = -7.0, depth = 7
iter = 6728, queue = 10018, heur = -7.0, depth = 7
```

```
iter = 6729, queue = 10017, heur = -7.0, depth = 7
iter = 6730, queue = 10018, heur = -7.0, depth = 7
iter = 6731, queue = 10017, heur = -7.0, depth = 7
iter = 6732, queue = 10016, heur = -7.0, depth = 7
iter = 6733, queue = 10017, heur = -7.0, depth = 8
iter = 6734, queue = 10018, heur = -7.0, depth = 7
iter = 6735, queue = 10020, heur = -7.0, depth = 7
iter = 6736, queue = 10023, heur = -7.0, depth = 7
iter = 6737, queue = 10024, heur = -7.0, depth = 7
iter = 6738, queue = 10025, heur = -7.0, depth = 7
iter = 6739, queue = 10027, heur = -7.0, depth = 7
iter = 6740, queue = 10030, heur = -7.0, depth = 7
iter = 6741, queue = 10033, heur = -7.0, depth = 7
iter = 6742, queue = 10035, heur = -7.0, depth = 7
iter = 6743, queue = 10036, heur = -7.0, depth = 7
iter = 6744, queue = 10036, heur = -7.0, depth = 7
iter = 6745, queue = 10037, heur = -7.0, depth = 7
iter = 6746, queue = 10038, heur = -7.0, depth = 7
iter = 6747, queue = 10039, heur = -7.0, depth = 7
iter = 6748, queue = 10038, heur = -7.0, depth = 7
iter = 6749, queue = 10040, heur = -7.0, depth = 7
iter = 6750, queue = 10041, heur = -7.0, depth = 7
iter = 6751, queue = 10042, heur = -7.0, depth = 7
iter = 6752, queue = 10043, heur = -7.0, depth = 7
iter = 6753, queue = 10043, heur = -7.0, depth = 7
iter = 6754, queue = 10044, heur = -7.0, depth = 7
iter = 6755, queue = 10046, heur = -7.0, depth = 7
iter = 6756, queue = 10049, heur = -7.0, depth = 7
iter = 6757, queue = 10050, heur = -7.0, depth = 7
iter = 6758, queue = 10051, heur = -7.0, depth = 7
iter = 6759, queue = 10052, heur = -7.0, depth = 7
iter = 6760, queue = 10053, heur = -7.0, depth = 7
iter = 6761, queue = 10054, heur = -7.0, depth = 7
iter = 6762, queue = 10056, heur = -7.0, depth = 7
iter = 6763, queue = 10059, heur = -7.0, depth = 7
iter = 6764, queue = 10060, heur = -7.0, depth = 7
iter = 6765, queue = 10061, heur = -7.0, depth = 7
iter = 6766, queue = 10061, heur = -7.0, depth = 7
iter = 6767, queue = 10063, heur = -7.0, depth = 7
iter = 6768, queue = 10064, heur = -7.0, depth = 7
iter = 6769, queue = 10063, heur = -7.0, depth = 7
iter = 6770, queue = 10064, heur = -7.0, depth = 7
iter = 6771, queue = 10065, heur = -7.0, depth = 7
iter = 6772, queue = 10068, heur = -7.0, depth = 7
iter = 6773, queue = 10068, heur = -7.0, depth = 7
iter = 6774, queue = 10069, heur = -7.0, depth = 7
iter = 6775, queue = 10070, heur = -7.0, depth = 7
iter = 6776, queue = 10069, heur = -7.0, depth = 7
iter = 6777, queue = 10070, heur = -7.0, depth = 7
iter = 6778, queue = 10071, heur = -7.0, depth = 7
iter = 6779, queue = 10071, heur = -7.0, depth = 7
iter = 6780, queue = 10072, heur = -7.0, depth = 7
iter = 6781, queue = 10073, heur = -7.0, depth = 7
iter = 6782, queue = 10073, heur = -7.0, depth = 7
iter = 6783, queue = 10076, heur = -7.0, depth = 7
iter = 6784, queue = 10075, heur = -7.0, depth = 7
iter = 6785, queue = 10076, heur = -7.0, depth = 7
iter = 6786, queue = 10076, heur = -7.0, depth = 7
iter = 6787, queue = 10079, heur = -7.0, depth = 7
```

```
iter = 6788, queue = 10080, heur = -7.0, depth = 7
iter = 6789, queue = 10081, heur = -7.0, depth = 7
iter = 6790, queue = 10084, heur = -7.0, depth = 7
iter = 6791, queue = 10085, heur = -7.0, depth = 7
iter = 6792, queue = 10088, heur = -7.0, depth = 7
iter = 6793, queue = 10091, heur = -7.0, depth = 7
iter = 6794, queue = 10092, heur = -7.0, depth = 7
iter = 6795, queue = 10095, heur = -7.0, depth = 7
iter = 6796, queue = 10094, heur = -7.0, depth = 7
iter = 6797, queue = 10095, heur = -7.0, depth = 7
iter = 6798, queue = 10096, heur = -7.0, depth = 7
iter = 6799, queue = 10099, heur = -7.0, depth = 7
iter = 6800, queue = 10102, heur = -7.0, depth = 7
iter = 6801, queue = 10101, heur = -7.0, depth = 7
iter = 6802, queue = 10102, heur = -7.0, depth = 7
iter = 6803, queue = 10103, heur = -7.0, depth = 7
iter = 6804, queue = 10103, heur = -7.0, depth = 7
iter = 6805, queue = 10106, heur = -7.0, depth = 7
iter = 6806, queue = 10107, heur = -7.0, depth = 7
iter = 6807, queue = 10109, heur = -7.0, depth = 7
iter = 6808, queue = 10110, heur = -7.0, depth = 7
iter = 6809, queue = 10110, heur = -7.0, depth = 7
iter = 6810, queue = 10110, heur = -7.0, depth = 7
iter = 6811, queue = 10109, heur = -7.0, depth = 7
iter = 6812, queue = 10109, heur = -7.0, depth = 7
iter = 6813, queue = 10112, heur = -7.0, depth = 7
iter = 6814, queue = 10111, heur = -7.0, depth = 7
iter = 6815, queue = 10112, heur = -7.0, depth = 7
iter = 6816, queue = 10113, heur = -7.0, depth = 7
iter = 6817, queue = 10114, heur = -7.0, depth = 7
iter = 6818, queue = 10114, heur = -7.0, depth = 7
iter = 6819, queue = 10115, heur = -7.0, depth = 7
iter = 6820, queue = 10116, heur = -7.0, depth = 7
iter = 6821, queue = 10117, heur = -7.0, depth = 7
iter = 6822, queue = 10117, heur = -7.0, depth = 7
iter = 6823, queue = 10118, heur = -7.0, depth = 7
iter = 6824, queue = 10118, heur = -7.0, depth = 7
iter = 6825, queue = 10120, heur = -7.0, depth = 7
iter = 6826, queue = 10119, heur = -7.0, depth = 7
iter = 6827, queue = 10120, heur = -7.0, depth = 7
iter = 6828, queue = 10122, heur = -7.0, depth = 7
iter = 6829, queue = 10122, heur = -7.0, depth = 7
iter = 6830, queue = 10121, heur = -7.0, depth = 7
iter = 6831, queue = 10122, heur = -7.0, depth = 7
iter = 6832, queue = 10125, heur = -7.0, depth = 7
iter = 6833, queue = 10126, heur = -7.0, depth = 7
iter = 6834, queue = 10125, heur = -7.0, depth = 7
iter = 6835, queue = 10126, heur = -7.0, depth = 7
iter = 6836, queue = 10128, heur = -7.0, depth = 7
iter = 6837, queue = 10129, heur = -7.0, depth = 7
iter = 6838, queue = 10130, heur = -7.0, depth = 7
iter = 6839, queue = 10131, heur = -7.0, depth = 7
iter = 6840, queue = 10131, heur = -7.0, depth = 7
iter = 6841, queue = 10132, heur = -7.0, depth = 7
iter = 6842, queue = 10133, heur = -7.0, depth = 7
iter = 6843, queue = 10134, heur = -7.0, depth = 7
iter = 6844, queue = 10135, heur = -7.0, depth = 7
iter = 6845, queue = 10135, heur = -7.0, depth = 7
iter = 6846, queue = 10135, heur = -7.0, depth = 7
```

```
iter = 6847, queue = 10136, heur = -7.0, depth = 7
iter = 6848, queue = 10137, heur = -7.0, depth = 7
iter = 6849, queue = 10138, heur = -7.0, depth = 7
iter = 6850, queue = 10139, heur = -7.0, depth = 7
iter = 6851, queue = 10142, heur = -7.0, depth = 7
iter = 6852, queue = 10144, heur = -7.0, depth = 7
iter = 6853, queue = 10146, heur = -7.0, depth = 7
iter = 6854, queue = 10147, heur = -7.0, depth = 7
iter = 6855, queue = 10150, heur = -7.0, depth = 7
iter = 6856, queue = 10153, heur = -7.0, depth = 7
iter = 6857, queue = 10153, heur = -7.0, depth = 7
iter = 6858, queue = 10155, heur = -7.0, depth = 7
iter = 6859, queue = 10155, heur = -7.0, depth = 7
iter = 6860, queue = 10155, heur = -7.0, depth = 7
iter = 6861, queue = 10156, heur = -7.0, depth = 7
iter = 6862, queue = 10157, heur = -7.0, depth = 7
iter = 6863, queue = 10157, heur = -7.0, depth = 7
iter = 6864, queue = 10160, heur = -7.0, depth = 7
iter = 6865, queue = 10160, heur = -7.0, depth = 7
iter = 6866, queue = 10163, heur = -7.0, depth = 7
iter = 6867, queue = 10162, heur = -7.0, depth = 7
iter = 6868, queue = 10163, heur = -7.0, depth = 7
iter = 6869, queue = 10166, heur = -7.0, depth = 7
iter = 6870, queue = 10169, heur = -7.0, depth = 7
iter = 6871, queue = 10170, heur = -7.0, depth = 7
iter = 6872, queue = 10170, heur = -7.0, depth = 7
iter = 6873, queue = 10171, heur = -7.0, depth = 7
iter = 6874, queue = 10174, heur = -7.0, depth = 7
iter = 6875, queue = 10177, heur = -7.0, depth = 7
iter = 6876, queue = 10178, heur = -7.0, depth = 7
iter = 6877, queue = 10178, heur = -7.0, depth = 7
iter = 6878, queue = 10181, heur = -7.0, depth = 7
iter = 6879, queue = 10183, heur = -7.0, depth = 7
iter = 6880, queue = 10184, heur = -7.0, depth = 7
iter = 6881, queue = 10186, heur = -7.0, depth = 7
iter = 6882, queue = 10186, heur = -7.0, depth = 7
iter = 6883, queue = 10187, heur = -7.0, depth = 7
iter = 6884, queue = 10189, heur = -7.0, depth = 7
iter = 6885, queue = 10188, heur = -7.0, depth = 7
iter = 6886, queue = 10191, heur = -7.0, depth = 7
iter = 6887, queue = 10192, heur = -7.0, depth = 7
iter = 6888, queue = 10193, heur = -7.0, depth = 7
iter = 6889, queue = 10196, heur = -7.0, depth = 7
iter = 6890, queue = 10197, heur = -7.0, depth = 7
iter = 6891, queue = 10196, heur = -7.0, depth = 7
iter = 6892, queue = 10197, heur = -7.0, depth = 7
iter = 6893, queue = 10200, heur = -7.0, depth = 7
iter = 6894, queue = 10201, heur = -7.0, depth = 7
iter = 6895, queue = 10202, heur = -7.0, depth = 7
iter = 6896, queue = 10203, heur = -7.0, depth = 7
iter = 6897, queue = 10205, heur = -7.0, depth = 7
iter = 6898, queue = 10204, heur = -7.0, depth = 7
iter = 6899, queue = 10207, heur = -7.0, depth = 7
iter = 6900, queue = 10210, heur = -7.0, depth = 7
iter = 6901, queue = 10211, heur = -7.0, depth = 7
iter = 6902, queue = 10213, heur = -7.0, depth = 7
iter = 6903, queue = 10215, heur = -7.0, depth = 7
iter = 6904, queue = 10214, heur = -7.0, depth = 7
iter = 6905, queue = 10217, heur = -7.0, depth = 7
```

```
iter = 6906, queue = 10219, heur = -7.0, depth = 7
iter = 6907, queue = 10218, heur = -7.0, depth = 7
iter = 6908, queue = 10219, heur = -7.0, depth = 7
iter = 6909, queue = 10220, heur = -7.0, depth = 7
iter = 6910, queue = 10223, heur = -7.0, depth = 7
iter = 6911, queue = 10224, heur = -7.0, depth = 7
iter = 6912, queue = 10224, heur = -7.0, depth = 7
iter = 6913, queue = 10224, heur = -7.0, depth = 7
iter = 6914, queue = 10224, heur = -7.0, depth = 7
iter = 6915, queue = 10226, heur = -7.0, depth = 7
iter = 6916, queue = 10227, heur = -7.0, depth = 7
iter = 6917, queue = 10226, heur = -7.0, depth = 7
iter = 6918, queue = 10227, heur = -7.0, depth = 7
iter = 6919, queue = 10227, heur = -7.0, depth = 7
iter = 6920, queue = 10227, heur = -7.0, depth = 7
iter = 6921, queue = 10228, heur = -7.0, depth = 7
iter = 6922, queue = 10229, heur = -7.0, depth = 7
iter = 6923, queue = 10230, heur = -7.0, depth = 7
iter = 6924, queue = 10231, heur = -7.0, depth = 7
iter = 6925, queue = 10232, heur = -7.0, depth = 7
iter = 6926, queue = 10234, heur = -7.0, depth = 7
iter = 6927, queue = 10235, heur = -7.0, depth = 7
iter = 6928, queue = 10236, heur = -7.0, depth = 7
iter = 6929, queue = 10238, heur = -7.0, depth = 7
iter = 6930, queue = 10239, heur = -7.0, depth = 7
iter = 6931, queue = 10240, heur = -7.0, depth = 7
iter = 6932, queue = 10243, heur = -7.0, depth = 7
iter = 6933, queue = 10246, heur = -7.0, depth = 7
iter = 6934, queue = 10246, heur = -7.0, depth = 7
iter = 6935, queue = 10246, heur = -7.0, depth = 7
iter = 6936, queue = 10247, heur = -7.0, depth = 7
iter = 6937, queue = 10248, heur = -7.0, depth = 7
iter = 6938, queue = 10248, heur = -7.0, depth = 7
iter = 6939, queue = 10249, heur = -7.0, depth = 7
iter = 6940, queue = 10251, heur = -7.0, depth = 7
iter = 6941, queue = 10252, heur = -7.0, depth = 7
iter = 6942, queue = 10253, heur = -7.0, depth = 7
iter = 6943, queue = 10254, heur = -7.0, depth = 7
iter = 6944, queue = 10255, heur = -7.0, depth = 7
iter = 6945, queue = 10258, heur = -7.0, depth = 7
iter = 6946, queue = 10257, heur = -7.0, depth = 7
iter = 6947, queue = 10260, heur = -7.0, depth = 7
iter = 6948, queue = 10262, heur = -7.0, depth = 7
iter = 6949, queue = 10262, heur = -7.0, depth = 7
iter = 6950, queue = 10262, heur = -7.0, depth = 7
iter = 6951, queue = 10265, heur = -7.0, depth = 7
iter = 6952, queue = 10266, heur = -7.0, depth = 7
iter = 6953, queue = 10267, heur = -7.0, depth = 7
iter = 6954, queue = 10267, heur = -7.0, depth = 7
iter = 6955, queue = 10268, heur = -7.0, depth = 7
iter = 6956, queue = 10269, heur = -7.0, depth = 7
iter = 6957, queue = 10270, heur = -7.0, depth = 7
iter = 6958, queue = 10271, heur = -7.0, depth = 7
iter = 6959, queue = 10273, heur = -7.0, depth = 7
iter = 6960, queue = 10274, heur = -7.0, depth = 7
iter = 6961, queue = 10275, heur = -7.0, depth = 8
iter = 6962, queue = 10275, heur = -7.0, depth = 7
iter = 6963, queue = 10276, heur = -7.0, depth = 7
iter = 6964, queue = 10279, heur = -7.0, depth = 7
```

```
iter = 6965, queue = 10282, heur = -7.0, depth = 7
iter = 6966, queue = 10283, heur = -7.0, depth = 7
iter = 6967, queue = 10283, heur = -7.0, depth = 7
iter = 6968, queue = 10284, heur = -7.0, depth = 7
iter = 6969, queue = 10285, heur = -7.0, depth = 7
iter = 6970, queue = 10286, heur = -7.0, depth = 7
iter = 6971, queue = 10287, heur = -7.0, depth = 7
iter = 6972, queue = 10289, heur = -7.0, depth = 7
iter = 6973, queue = 10290, heur = -7.0, depth = 7
iter = 6974, queue = 10289, heur = -7.0, depth = 7
iter = 6975, queue = 10289, heur = -7.0, depth = 7
iter = 6976, queue = 10289, heur = -7.0, depth = 7
iter = 6977, queue = 10288, heur = -7.0, depth = 7
iter = 6978, queue = 10291, heur = -7.0, depth = 7
iter = 6979, queue = 10294, heur = -7.0, depth = 7
iter = 6980, queue = 10297, heur = -7.0, depth = 7
iter = 6981, queue = 10298, heur = -7.0, depth = 7
iter = 6982, queue = 10300, heur = -7.0, depth = 7
iter = 6983, queue = 10302, heur = -7.0, depth = 7
iter = 6984, queue = 10302, heur = -7.0, depth = 7
iter = 6985, queue = 10303, heur = -7.0, depth = 7
iter = 6986, queue = 10306, heur = -7.0, depth = 7
iter = 6987, queue = 10309, heur = -7.0, depth = 7
iter = 6988, queue = 10312, heur = -7.0, depth = 7
iter = 6989, queue = 10313, heur = -7.0, depth = 7
iter = 6990, queue = 10314, heur = -7.0, depth = 9
iter = 6991, queue = 10316, heur = -7.0, depth = 7
iter = 6992, queue = 10315, heur = -7.0, depth = 7
iter = 6993, queue = 10317, heur = -7.0, depth = 7
iter = 6994, queue = 10320, heur = -7.0, depth = 7
iter = 6995, queue = 10321, heur = -7.0, depth = 7
iter = 6996, queue = 10322, heur = -7.0, depth = 7
iter = 6997, queue = 10322, heur = -7.0, depth = 7
iter = 6998, queue = 10321, heur = -7.0, depth = 7
iter = 6999, queue = 10320, heur = -7.0, depth = 7
iter = 7000, queue = 10321, heur = -7.0, depth = 7
iter = 7001, queue = 10322, heur = -7.0, depth = 7
iter = 7002, queue = 10323, heur = -7.0, depth = 7
iter = 7003, queue = 10326, heur = -7.0, depth = 7
iter = 7004, queue = 10327, heur = -7.0, depth = 7
iter = 7005, queue = 10327, heur = -7.0, depth = 7
iter = 7006, queue = 10326, heur = -7.0, depth = 7
iter = 7007, queue = 10326, heur = -7.0, depth = 7
iter = 7008, queue = 10325, heur = -7.0, depth = 7
iter = 7009, queue = 10326, heur = -7.0, depth = 7
iter = 7010, queue = 10327, heur = -7.0, depth = 7
iter = 7011, queue = 10327, heur = -7.0, depth = 7
iter = 7012, queue = 10329, heur = -7.0, depth = 7
iter = 7013, queue = 10332, heur = -7.0, depth = 7
iter = 7014, queue = 10332, heur = -7.0, depth = 7
iter = 7015, queue = 10332, heur = -7.0, depth = 7
iter = 7016, queue = 10333, heur = -7.0, depth = 7
iter = 7017, queue = 10336, heur = -7.0, depth = 7
iter = 7018, queue = 10339, heur = -7.0, depth = 7
iter = 7019, queue = 10340, heur = -7.0, depth = 7
iter = 7020, queue = 10341, heur = -7.0, depth = 7
iter = 7021, queue = 10342, heur = -7.0, depth = 7
iter = 7022, queue = 10345, heur = -7.0, depth = 7
iter = 7023, queue = 10348, heur = -7.0, depth = 7
```

```
iter = 7024, queue = 10351, heur = -7.0, depth = 7
iter = 7025, queue = 10350, heur = -7.0, depth = 7
iter = 7026, queue = 10352, heur = -7.0, depth = 7
iter = 7027, queue = 10353, heur = -7.0, depth = 7
iter = 7028, queue = 10354, heur = -7.0, depth = 7
iter = 7029, queue = 10355, heur = -7.0, depth = 7
iter = 7030, queue = 10356, heur = -7.0, depth = 7
iter = 7031, queue = 10357, heur = -7.0, depth = 7
iter = 7032, queue = 10358, heur = -7.0, depth = 7
iter = 7033, queue = 10361, heur = -7.0, depth = 7
iter = 7034, queue = 10363, heur = -7.0, depth = 7
iter = 7035, queue = 10364, heur = -7.0, depth = 7
iter = 7036, queue = 10364, heur = -7.0, depth = 7
iter = 7037, queue = 10363, heur = -7.0, depth = 7
iter = 7038, queue = 10365, heur = -7.0, depth = 7
iter = 7039, queue = 10367, heur = -7.0, depth = 7
iter = 7040, queue = 10370, heur = -7.0, depth = 7
iter = 7041, queue = 10373, heur = -7.0, depth = 7
iter = 7042, queue = 10374, heur = -7.0, depth = 7
iter = 7043, queue = 10377, heur = -7.0, depth = 7
iter = 7044, queue = 10378, heur = -7.0, depth = 7
iter = 7045, queue = 10379, heur = -7.0, depth = 7
iter = 7046, queue = 10380, heur = -7.0, depth = 7
iter = 7047, queue = 10383, heur = -7.0, depth = 7
iter = 7048, queue = 10386, heur = -7.0, depth = 7
iter = 7049, queue = 10387, heur = -7.0, depth = 7
iter = 7050, queue = 10388, heur = -7.0, depth = 7
iter = 7051, queue = 10390, heur = -7.0, depth = 7
iter = 7052, queue = 10389, heur = -7.0, depth = 7
iter = 7053, queue = 10389, heur = -7.0, depth = 7
iter = 7054, queue = 10392, heur = -7.0, depth = 7
iter = 7055, queue = 10392, heur = -7.0, depth = 7
iter = 7056, queue = 10393, heur = -7.0, depth = 7
iter = 7057, queue = 10396, heur = -7.0, depth = 7
iter = 7058, queue = 10398, heur = -7.0, depth = 7
iter = 7059, queue = 10397, heur = -7.0, depth = 7
iter = 7060, queue = 10398, heur = -7.0, depth = 7
iter = 7061, queue = 10400, heur = -7.0, depth = 7
iter = 7062, queue = 10401, heur = -7.0, depth = 7
iter = 7063, queue = 10402, heur = -7.0, depth = 7
iter = 7064, queue = 10401, heur = -7.0, depth = 7
iter = 7065, queue = 10400, heur = -7.0, depth = 7
iter = 7066, queue = 10399, heur = -7.0, depth = 7
iter = 7067, queue = 10400, heur = -7.0, depth = 7
iter = 7068, queue = 10402, heur = -7.0, depth = 7
iter = 7069, queue = 10405, heur = -7.0, depth = 7
iter = 7070, queue = 10408, heur = -7.0, depth = 7
iter = 7071, queue = 10409, heur = -7.0, depth = 7
iter = 7072, queue = 10412, heur = -7.0, depth = 7
iter = 7073, queue = 10415, heur = -7.0, depth = 7
iter = 7074, queue = 10414, heur = -7.0, depth = 7
iter = 7075, queue = 10415, heur = -7.0, depth = 7
iter = 7076, queue = 10414, heur = -7.0, depth = 7
iter = 7077, queue = 10415, heur = -7.0, depth = 7
iter = 7078, queue = 10416, heur = -7.0, depth = 7
iter = 7079, queue = 10417, heur = -7.0, depth = 7
iter = 7080, queue = 10418, heur = -7.0, depth = 7
iter = 7081, queue = 10420, heur = -7.0, depth = 7
iter = 7082, queue = 10421, heur = -7.0, depth = 7
```

```
iter = 7083, queue = 10422, heur = -7.0, depth = 7
iter = 7084, queue = 10421, heur = -7.0, depth = 7
iter = 7085, queue = 10424, heur = -7.0, depth = 7
iter = 7086, queue = 10425, heur = -7.0, depth = 7
iter = 7087, queue = 10426, heur = -7.0, depth = 7
iter = 7088, queue = 10427, heur = -7.0, depth = 7
iter = 7089, queue = 10426, heur = -7.0, depth = 7
iter = 7090, queue = 10427, heur = -7.0, depth = 7
iter = 7091, queue = 10428, heur = -7.0, depth = 7
iter = 7092, queue = 10429, heur = -7.0, depth = 7
iter = 7093, queue = 10432, heur = -7.0, depth = 7
iter = 7094, queue = 10433, heur = -7.0, depth = 7
iter = 7095, queue = 10434, heur = -7.0, depth = 7
iter = 7096, queue = 10435, heur = -7.0, depth = 7
iter = 7097, queue = 10436, heur = -7.0, depth = 7
iter = 7098, queue = 10437, heur = -7.0, depth = 8
iter = 7099, queue = 10438, heur = -7.0, depth = 7
iter = 7100, queue = 10438, heur = -7.0, depth = 7
iter = 7101, queue = 10438, heur = -7.0, depth = 7
iter = 7102, queue = 10441, heur = -7.0, depth = 7
iter = 7103, queue = 10444, heur = -7.0, depth = 7
iter = 7104, queue = 10445, heur = -7.0, depth = 7
iter = 7105, queue = 10447, heur = -7.0, depth = 9
iter = 7106, queue = 10448, heur = -7.0, depth = 7
iter = 7107, queue = 10447, heur = -7.0, depth = 7
iter = 7108, queue = 10448, heur = -7.0, depth = 7
iter = 7109, queue = 10448, heur = -7.0, depth = 7
iter = 7110, queue = 10451, heur = -7.0, depth = 7
iter = 7111, queue = 10451, heur = -7.0, depth = 7
iter = 7112, queue = 10452, heur = -7.0, depth = 10
iter = 7113, queue = 10453, heur = -7.0, depth = 7
iter = 7114, queue = 10454, heur = -7.0, depth = 7
iter = 7115, queue = 10453, heur = -7.0, depth = 7
iter = 7116, queue = 10454, heur = -7.0, depth = 7
iter = 7117, queue = 10457, heur = -7.0, depth = 7
iter = 7118, queue = 10458, heur = -7.0, depth = 7
iter = 7119, queue = 10458, heur = -7.0, depth = 7
iter = 7120, queue = 10459, heur = -7.0, depth = 7
iter = 7121, queue = 10461, heur = -7.0, depth = 7
iter = 7122, queue = 10462, heur = -7.0, depth = 7
iter = 7123, queue = 10463, heur = -7.0, depth = 7
iter = 7124, queue = 10464, heur = -7.0, depth = 7
iter = 7125, queue = 10465, heur = -7.0, depth = 12
iter = 7126, queue = 10465, heur = -7.0, depth = 11
iter = 7127, queue = 10464, heur = -7.0, depth = 8
iter = 7128, queue = 10466, heur = -7.0, depth = 7
iter = 7129, queue = 10469, heur = -7.0, depth = 7
iter = 7130, queue = 10470, heur = -7.0, depth = 7
iter = 7131, queue = 10473, heur = -7.0, depth = 7
iter = 7132, queue = 10476, heur = -7.0, depth = 7
iter = 7133, queue = 10477, heur = -7.0, depth = 7
iter = 7134, queue = 10479, heur = -7.0, depth = 7
iter = 7135, queue = 10482, heur = -7.0, depth = 7
iter = 7136, queue = 10485, heur = -7.0, depth = 7
iter = 7137, queue = 10488, heur = -7.0, depth = 7
iter = 7138, queue = 10490, heur = -7.0, depth = 7
iter = 7139, queue = 10492, heur = -7.0, depth = 7
iter = 7140, queue = 10493, heur = -7.0, depth = 7
iter = 7141, queue = 10494, heur = -7.0, depth = 7
```

```
iter = 7142, queue = 10494, heur = -7.0, depth = 7
iter = 7143, queue = 10494, heur = -7.0, depth = 7
iter = 7144, queue = 10494, heur = -7.0, depth = 7
iter = 7145, queue = 10496, heur = -7.0, depth = 7
iter = 7146, queue = 10498, heur = -7.0, depth = 7
iter = 7147, queue = 10501, heur = -7.0, depth = 7
iter = 7148, queue = 10502, heur = -7.0, depth = 7
iter = 7149, queue = 10502, heur = -7.0, depth = 7
iter = 7150, queue = 10503, heur = -7.0, depth = 7
iter = 7151, queue = 10503, heur = -7.0, depth = 7
iter = 7152, queue = 10506, heur = -7.0, depth = 7
iter = 7153, queue = 10506, heur = -7.0, depth = 7
iter = 7154, queue = 10507, heur = -7.0, depth = 7
iter = 7155, queue = 10508, heur = -7.0, depth = 7
iter = 7156, queue = 10509, heur = -7.0, depth = 7
iter = 7157, queue = 10509, heur = -7.0, depth = 7
iter = 7158, queue = 10512, heur = -7.0, depth = 7
iter = 7159, queue = 10513, heur = -7.0, depth = 7
iter = 7160, queue = 10516, heur = -7.0, depth = 7
iter = 7161, queue = 10519, heur = -7.0, depth = 7
iter = 7162, queue = 10520, heur = -7.0, depth = 7
iter = 7163, queue = 10521, heur = -7.0, depth = 7
iter = 7164, queue = 10524, heur = -7.0, depth = 7
iter = 7165, queue = 10525, heur = -7.0, depth = 7
iter = 7166, queue = 10524, heur = -7.0, depth = 7
iter = 7167, queue = 10527, heur = -7.0, depth = 7
iter = 7168, queue = 10527, heur = -7.0, depth = 7
iter = 7169, queue = 10530, heur = -7.0, depth = 7
iter = 7170, queue = 10533, heur = -7.0, depth = 7
iter = 7171, queue = 10535, heur = -7.0, depth = 7
iter = 7172, queue = 10536, heur = -7.0, depth = 7
iter = 7173, queue = 10539, heur = -7.0, depth = 7
iter = 7174, queue = 10540, heur = -7.0, depth = 7
iter = 7175, queue = 10539, heur = -7.0, depth = 7
iter = 7176, queue = 10540, heur = -7.0, depth = 7
iter = 7177, queue = 10543, heur = -7.0, depth = 7
iter = 7178, queue = 10544, heur = -7.0, depth = 7
iter = 7179, queue = 10546, heur = -7.0, depth = 7
iter = 7180, queue = 10545, heur = -7.0, depth = 7
iter = 7181, queue = 10547, heur = -7.0, depth = 7
iter = 7182, queue = 10548, heur = -7.0, depth = 7
iter = 7183, queue = 10548, heur = -7.0, depth = 7
iter = 7184, queue = 10550, heur = -7.0, depth = 7
iter = 7185, queue = 10549, heur = -7.0, depth = 7
iter = 7186, queue = 10550, heur = -7.0, depth = 7
iter = 7187, queue = 10551, heur = -7.0, depth = 7
iter = 7188, queue = 10554, heur = -7.0, depth = 7
iter = 7189, queue = 10555, heur = -7.0, depth = 7
iter = 7190, queue = 10556, heur = -7.0, depth = 7
iter = 7191, queue = 10557, heur = -7.0, depth = 7
iter = 7192, queue = 10558, heur = -7.0, depth = 7
iter = 7193, queue = 10559, heur = -7.0, depth = 7
iter = 7194, queue = 10562, heur = -7.0, depth = 7
iter = 7195, queue = 10563, heur = -7.0, depth = 7
iter = 7196, queue = 10564, heur = -7.0, depth = 7
iter = 7197, queue = 10565, heur = -7.0, depth = 7
iter = 7198, queue = 10566, heur = -7.0, depth = 7
iter = 7199, queue = 10567, heur = -7.0, depth = 7
iter = 7200, queue = 10570, heur = -7.0, depth = 7
```

```
iter = 7201, queue = 10571, heur = -7.0, depth = 7
iter = 7202, queue = 10574, heur = -7.0, depth = 7
iter = 7203, queue = 10575, heur = -7.0, depth = 7
iter = 7204, queue = 10577, heur = -7.0, depth = 7
iter = 7205, queue = 10580, heur = -7.0, depth = 7
iter = 7206, queue = 10583, heur = -7.0, depth = 7
iter = 7207, queue = 10584, heur = -7.0, depth = 7
iter = 7208, queue = 10585, heur = -7.0, depth = 7
iter = 7209, queue = 10585, heur = -7.0, depth = 7
iter = 7210, queue = 10586, heur = -7.0, depth = 7
iter = 7211, queue = 10586, heur = -7.0, depth = 7
iter = 7212, queue = 10587, heur = -7.0, depth = 7
iter = 7213, queue = 10587, heur = -7.0, depth = 7
iter = 7214, queue = 10590, heur = -7.0, depth = 7
iter = 7215, queue = 10590, heur = -7.0, depth = 7
iter = 7216, queue = 10591, heur = -7.0, depth = 7
iter = 7217, queue = 10590, heur = -7.0, depth = 7
iter = 7218, queue = 10591, heur = -7.0, depth = 7
iter = 7219, queue = 10592, heur = -7.0, depth = 7
iter = 7220, queue = 10591, heur = -7.0, depth = 7
iter = 7221, queue = 10592, heur = -7.0, depth = 7
iter = 7222, queue = 10592, heur = -7.0, depth = 7
iter = 7223, queue = 10593, heur = -7.0, depth = 7
iter = 7224, queue = 10594, heur = -7.0, depth = 7
iter = 7225, queue = 10595, heur = -7.0, depth = 7
iter = 7226, queue = 10596, heur = -7.0, depth = 7
iter = 7227, queue = 10597, heur = -7.0, depth = 7
iter = 7228, queue = 10597, heur = -7.0, depth = 7
iter = 7229, queue = 10598, heur = -7.0, depth = 7
iter = 7230, queue = 10601, heur = -7.0, depth = 7
iter = 7231, queue = 10603, heur = -7.0, depth = 7
iter = 7232, queue = 10604, heur = -7.0, depth = 7
iter = 7233, queue = 10605, heur = -7.0, depth = 7
iter = 7234, queue = 10607, heur = -7.0, depth = 7
iter = 7235, queue = 10608, heur = -7.0, depth = 7
iter = 7236, queue = 10607, heur = -7.0, depth = 7
iter = 7237, queue = 10608, heur = -7.0, depth = 7
iter = 7238, queue = 10608, heur = -7.0, depth = 7
iter = 7239, queue = 10609, heur = -7.0, depth = 7
iter = 7240, queue = 10608, heur = -7.0, depth = 7
iter = 7241, queue = 10611, heur = -7.0, depth = 7
iter = 7242, queue = 10614, heur = -7.0, depth = 7
iter = 7243, queue = 10615, heur = -7.0, depth = 13
iter = 7244, queue = 10616, heur = -7.0, depth = 13
iter = 7245, queue = 10619, heur = -7.0, depth = 8
iter = 7246, queue = 10620, heur = -7.0, depth = 7
iter = 7247, queue = 10619, heur = -7.0, depth = 14
iter = 7248, queue = 10620, heur = -7.0, depth = 13
iter = 7249, queue = 10623, heur = -7.0, depth = 7
iter = 7250, queue = 10626, heur = -7.0, depth = 7
iter = 7251, queue = 10625, heur = -7.0, depth = 7
iter = 7252, queue = 10626, heur = -7.0, depth = 7
iter = 7253, queue = 10629, heur = -7.0, depth = 7
iter = 7254, queue = 10630, heur = -7.0, depth = 7
iter = 7255, queue = 10630, heur = -7.0, depth = 7
iter = 7256, queue = 10631, heur = -7.0, depth = 7
iter = 7257, queue = 10634, heur = -7.0, depth = 8
iter = 7258, queue = 10636, heur = -7.0, depth = 9
iter = 7259, queue = 10638, heur = -7.0, depth = 7
```

```
iter = 7260, queue = 10639, heur = -7.0, depth = 7
iter = 7261, queue = 10638, heur = -7.0, depth = 7
iter = 7262, queue = 10639, heur = -7.0, depth = 7
iter = 7263, queue = 10639, heur = -7.0, depth = 7
iter = 7264, queue = 10640, heur = -7.0, depth = 12
iter = 7265, queue = 10641, heur = -7.0, depth = 7
iter = 7266, queue = 10640, heur = -7.0, depth = 12
iter = 7267, queue = 10643, heur = -7.0, depth = 7
iter = 7268, queue = 10643, heur = -7.0, depth = 7
iter = 7269, queue = 10646, heur = -7.0, depth = 7
iter = 7270, queue = 10647, heur = -7.0, depth = 7
iter = 7271, queue = 10646, heur = -7.0, depth = 7
iter = 7272, queue = 10647, heur = -7.0, depth = 7
iter = 7273, queue = 10649, heur = -7.0, depth = 7
iter = 7274, queue = 10650, heur = -7.0, depth = 7
iter = 7275, queue = 10651, heur = -7.0, depth = 7
iter = 7276, queue = 10654, heur = -7.0, depth = 7
iter = 7277, queue = 10654, heur = -7.0, depth = 7
iter = 7278, queue = 10653, heur = -7.0, depth = 7
iter = 7279, queue = 10654, heur = -7.0, depth = 7
iter = 7280, queue = 10655, heur = -7.0, depth = 7
iter = 7281, queue = 10656, heur = -7.0, depth = 7
iter = 7282, queue = 10657, heur = -7.0, depth = 7
iter = 7283, queue = 10658, heur = -7.0, depth = 7
iter = 7284, queue = 10660, heur = -7.0, depth = 8
iter = 7285, queue = 10659, heur = -7.0, depth = 7
iter = 7286, queue = 10662, heur = -7.0, depth = 11
iter = 7287, queue = 10662, heur = -7.0, depth = 7
iter = 7288, queue = 10663, heur = -7.0, depth = 11
iter = 7289, queue = 10666, heur = -7.0, depth = 7
iter = 7290, queue = 10666, heur = -7.0, depth = 7
iter = 7291, queue = 10666, heur = -7.0, depth = 7
iter = 7292, queue = 10666, heur = -7.0, depth = 7
iter = 7293, queue = 10667, heur = -7.0, depth = 7
iter = 7294, queue = 10670, heur = -7.0, depth = 7
iter = 7295, queue = 10671, heur = -7.0, depth = 7
iter = 7296, queue = 10673, heur = -7.0, depth = 7
iter = 7297, queue = 10672, heur = -7.0, depth = 7
iter = 7298, queue = 10674, heur = -7.0, depth = 7
iter = 7299, queue = 10674, heur = -7.0, depth = 7
iter = 7300, queue = 10675, heur = -7.0, depth = 7
iter = 7301, queue = 10677, heur = -7.0, depth = 7
iter = 7302, queue = 10680, heur = -7.0, depth = 7
iter = 7303, queue = 10682, heur = -7.0, depth = 7
iter = 7304, queue = 10685, heur = -7.0, depth = 7
iter = 7305, queue = 10686, heur = -7.0, depth = 7
iter = 7306, queue = 10687, heur = -7.0, depth = 7
iter = 7307, queue = 10690, heur = -7.0, depth = 7
iter = 7308, queue = 10691, heur = -7.0, depth = 7
iter = 7309, queue = 10692, heur = -7.0, depth = 7
iter = 7310, queue = 10695, heur = -7.0, depth = 7
iter = 7311, queue = 10698, heur = -7.0, depth = 7
iter = 7312, queue = 10701, heur = -7.0, depth = 7
iter = 7313, queue = 10702, heur = -7.0, depth = 7
iter = 7314, queue = 10703, heur = -7.0, depth = 7
iter = 7315, queue = 10706, heur = -7.0, depth = 7
iter = 7316, queue = 10709, heur = -7.0, depth = 7
iter = 7317, queue = 10710, heur = -7.0, depth = 7
iter = 7318, queue = 10710, heur = -7.0, depth = 7
```

```
iter = 7319, queue = 10709, heur = -7.0, depth = 7
iter = 7320, queue = 10710, heur = -7.0, depth = 9
iter = 7321, queue = 10710, heur = -7.0, depth = 7
iter = 7322, queue = 10709, heur = -7.0, depth = 7
iter = 7323, queue = 10710, heur = -7.0, depth = 7
iter = 7324, queue = 10711, heur = -7.0, depth = 7
iter = 7325, queue = 10712, heur = -7.0, depth = 7
iter = 7326, queue = 10712, heur = -7.0, depth = 7
iter = 7327, queue = 10711, heur = -7.0, depth = 7
iter = 7328, queue = 10713, heur = -7.0, depth = 7
iter = 7329, queue = 10712, heur = -7.0, depth = 7
iter = 7330, queue = 10711, heur = -7.0, depth = 7
iter = 7331, queue = 10712, heur = -7.0, depth = 7
iter = 7332, queue = 10713, heur = -7.0, depth = 7
iter = 7333, queue = 10712, heur = -7.0, depth = 7
iter = 7334, queue = 10711, heur = -7.0, depth = 7
iter = 7335, queue = 10712, heur = -7.0, depth = 8
iter = 7336, queue = 10715, heur = -7.0, depth = 7
iter = 7337, queue = 10716, heur = -7.0, depth = 8
iter = 7338, queue = 10717, heur = -7.0, depth = 7
iter = 7339, queue = 10720, heur = -7.0, depth = 7
iter = 7340, queue = 10719, heur = -7.0, depth = 7
iter = 7341, queue = 10719, heur = -7.0, depth = 7
iter = 7342, queue = 10720, heur = -7.0, depth = 7
iter = 7343, queue = 10722, heur = -7.0, depth = 7
iter = 7344, queue = 10725, heur = -7.0, depth = 7
iter = 7345, queue = 10725, heur = -7.0, depth = 7
iter = 7346, queue = 10725, heur = -7.0, depth = 7
iter = 7347, queue = 10726, heur = -7.0, depth = 7
iter = 7348, queue = 10725, heur = -7.0, depth = 7
iter = 7349, queue = 10728, heur = -7.0, depth = 7
iter = 7350, queue = 10730, heur = -7.0, depth = 7
iter = 7351, queue = 10731, heur = -7.0, depth = 7
iter = 7352, queue = 10732, heur = -7.0, depth = 7
iter = 7353, queue = 10732, heur = -7.0, depth = 7
iter = 7354, queue = 10735, heur = -7.0, depth = 7
iter = 7355, queue = 10735, heur = -7.0, depth = 7
iter = 7356, queue = 10738, heur = -7.0, depth = 7
iter = 7357, queue = 10739, heur = -7.0, depth = 7
iter = 7358, queue = 10742, heur = -7.0, depth = 7
iter = 7359, queue = 10745, heur = -7.0, depth = 7
iter = 7360, queue = 10748, heur = -7.0, depth = 7
iter = 7361, queue = 10751, heur = -7.0, depth = 7
iter = 7362, queue = 10753, heur = -7.0, depth = 7
iter = 7363, queue = 10755, heur = -7.0, depth = 7
iter = 7364, queue = 10756, heur = -7.0, depth = 7
iter = 7365, queue = 10758, heur = -7.0, depth = 7
iter = 7366, queue = 10760, heur = -7.0, depth = 7
iter = 7367, queue = 10759, heur = -7.0, depth = 7
iter = 7368, queue = 10762, heur = -7.0, depth = 7
iter = 7369, queue = 10764, heur = -7.0, depth = 7
iter = 7370, queue = 10765, heur = -7.0, depth = 7
iter = 7371, queue = 10766, heur = -7.0, depth = 7
iter = 7372, queue = 10766, heur = -7.0, depth = 7
iter = 7373, queue = 10767, heur = -7.0, depth = 7
iter = 7374, queue = 10768, heur = -7.0, depth = 7
iter = 7375, queue = 10770, heur = -7.0, depth = 7
iter = 7376, queue = 10771, heur = -7.0, depth = 7
iter = 7377, queue = 10770, heur = -7.0, depth = 7
```

```
iter = 7378, queue = 10771, heur = -7.0, depth = 7
iter = 7379, queue = 10774, heur = -7.0, depth = 7
iter = 7380, queue = 10775, heur = -7.0, depth = 7
iter = 7381, queue = 10776, heur = -7.0, depth = 7
iter = 7382, queue = 10778, heur = -7.0, depth = 7
iter = 7383, queue = 10779, heur = -7.0, depth = 7
iter = 7384, queue = 10782, heur = -7.0, depth = 7
iter = 7385, queue = 10783, heur = -7.0, depth = 8
iter = 7386, queue = 10785, heur = -7.0, depth = 7
iter = 7387, queue = 10784, heur = -7.0, depth = 9
iter = 7388, queue = 10785, heur = -7.0, depth = 7
iter = 7389, queue = 10787, heur = -7.0, depth = 7
iter = 7390, queue = 10788, heur = -7.0, depth = 7
iter = 7391, queue = 10789, heur = -7.0, depth = 7
iter = 7392, queue = 10789, heur = -7.0, depth = 7
iter = 7393, queue = 10790, heur = -7.0, depth = 7
iter = 7394, queue = 10792, heur = -7.0, depth = 7
iter = 7395, queue = 10795, heur = -7.0, depth = 7
iter = 7396, queue = 10794, heur = -7.0, depth = 7
iter = 7397, queue = 10795, heur = -7.0, depth = 7
iter = 7398, queue = 10794, heur = -7.0, depth = 7
iter = 7399, queue = 10795, heur = -7.0, depth = 7
iter = 7400, queue = 10794, heur = -7.0, depth = 7
iter = 7401, queue = 10795, heur = -7.0, depth = 7
iter = 7402, queue = 10796, heur = -7.0, depth = 7
iter = 7403, queue = 10797, heur = -7.0, depth = 7
iter = 7404, queue = 10796, heur = -7.0, depth = 7
iter = 7405, queue = 10797, heur = -7.0, depth = 7
iter = 7406, queue = 10798, heur = -7.0, depth = 7
iter = 7407, queue = 10799, heur = -7.0, depth = 7
iter = 7408, queue = 10800, heur = -7.0, depth = 7
iter = 7409, queue = 10801, heur = -7.0, depth = 7
iter = 7410, queue = 10804, heur = -7.0, depth = 9
iter = 7411, queue = 10803, heur = -7.0, depth = 7
iter = 7412, queue = 10804, heur = -7.0, depth = 7
iter = 7413, queue = 10807, heur = -7.0, depth = 7
iter = 7414, queue = 10808, heur = -7.0, depth = 7
iter = 7415, queue = 10807, heur = -7.0, depth = 7
iter = 7416, queue = 10809, heur = -7.0, depth = 7
iter = 7417, queue = 10810, heur = -7.0, depth = 10
iter = 7418, queue = 10811, heur = -7.0, depth = 7
iter = 7419, queue = 10812, heur = -7.0, depth = 8
iter = 7420, queue = 10814, heur = -7.0, depth = 7
iter = 7421, queue = 10813, heur = -7.0, depth = 9
iter = 7422, queue = 10813, heur = -7.0, depth = 7
iter = 7423, queue = 10813, heur = -7.0, depth = 7
iter = 7424, queue = 10814, heur = -7.0, depth = 7
iter = 7425, queue = 10816, heur = -7.0, depth = 7
iter = 7426, queue = 10818, heur = -7.0, depth = 7
iter = 7427, queue = 10818, heur = -7.0, depth = 7
iter = 7428, queue = 10818, heur = -7.0, depth = 7
iter = 7429, queue = 10818, heur = -7.0, depth = 7
iter = 7430, queue = 10819, heur = -7.0, depth = 7
iter = 7431, queue = 10821, heur = -7.0, depth = 7
iter = 7432, queue = 10823, heur = -7.0, depth = 7
iter = 7433, queue = 10823, heur = -7.0, depth = 7
iter = 7434, queue = 10824, heur = -7.0, depth = 7
iter = 7435, queue = 10825, heur = -7.0, depth = 7
iter = 7436, queue = 10828, heur = -7.0, depth = 7
```

```
iter = 7437, queue = 10829, heur = -7.0, depth = 7
iter = 7438, queue = 10828, heur = -7.0, depth = 7
iter = 7439, queue = 10829, heur = -7.0, depth = 7
iter = 7440, queue = 10830, heur = -7.0, depth = 7
iter = 7441, queue = 10833, heur = -7.0, depth = 7
iter = 7442, queue = 10833, heur = -7.0, depth = 7
iter = 7443, queue = 10836, heur = -7.0, depth = 7
iter = 7444, queue = 10837, heur = -7.0, depth = 7
iter = 7445, queue = 10837, heur = -7.0, depth = 7
iter = 7446, queue = 10838, heur = -7.0, depth = 7
iter = 7447, queue = 10838, heur = -7.0, depth = 9
iter = 7448, queue = 10839, heur = -7.0, depth = 7
iter = 7449, queue = 10839, heur = -7.0, depth = 7
iter = 7450, queue = 10840, heur = -7.0, depth = 7
iter = 7451, queue = 10841, heur = -7.0, depth = 7
iter = 7452, queue = 10844, heur = -7.0, depth = 7
iter = 7453, queue = 10845, heur = -7.0, depth = 7
iter = 7454, queue = 10846, heur = -7.0, depth = 7
iter = 7455, queue = 10847, heur = -7.0, depth = 7
iter = 7456, queue = 10849, heur = -7.0, depth = 7
iter = 7457, queue = 10851, heur = -7.0, depth = 7
iter = 7458, queue = 10854, heur = -7.0, depth = 7
iter = 7459, queue = 10855, heur = -7.0, depth = 7
iter = 7460, queue = 10857, heur = -7.0, depth = 7
iter = 7461, queue = 10858, heur = -7.0, depth = 7
iter = 7462, queue = 10860, heur = -7.0, depth = 7
iter = 7463, queue = 10860, heur = -7.0, depth = 7
iter = 7464, queue = 10862, heur = -7.0, depth = 7
iter = 7465, queue = 10863, heur = -7.0, depth = 7
iter = 7466, queue = 10863, heur = -7.0, depth = 7
iter = 7467, queue = 10864, heur = -7.0, depth = 7
iter = 7468, queue = 10865, heur = -7.0, depth = 7
iter = 7469, queue = 10868, heur = -7.0, depth = 7
iter = 7470, queue = 10871, heur = -7.0, depth = 7
iter = 7471, queue = 10871, heur = -7.0, depth = 7
iter = 7472, queue = 10872, heur = -7.0, depth = 7
iter = 7473, queue = 10873, heur = -7.0, depth = 7
iter = 7474, queue = 10874, heur = -7.0, depth = 7
iter = 7475, queue = 10874, heur = -7.0, depth = 7
iter = 7476, queue = 10874, heur = -7.0, depth = 7
iter = 7477, queue = 10874, heur = -7.0, depth = 7
iter = 7478, queue = 10876, heur = -7.0, depth = 7
iter = 7479, queue = 10877, heur = -7.0, depth = 7
iter = 7480, queue = 10879, heur = -7.0, depth = 7
iter = 7481, queue = 10880, heur = -7.0, depth = 7
iter = 7482, queue = 10881, heur = -7.0, depth = 7
iter = 7483, queue = 10882, heur = -7.0, depth = 7
iter = 7484, queue = 10885, heur = -7.0, depth = 7
iter = 7485, queue = 10885, heur = -7.0, depth = 7
iter = 7486, queue = 10887, heur = -7.0, depth = 7
iter = 7487, queue = 10886, heur = -7.0, depth = 7
iter = 7488, queue = 10888, heur = -7.0, depth = 7
iter = 7489, queue = 10890, heur = -7.0, depth = 7
iter = 7490, queue = 10892, heur = -7.0, depth = 7
iter = 7491, queue = 10895, heur = -7.0, depth = 7
iter = 7492, queue = 10896, heur = -7.0, depth = 7
iter = 7493, queue = 10897, heur = -7.0, depth = 7
iter = 7494, queue = 10898, heur = -7.0, depth = 7
iter = 7495, queue = 10898, heur = -7.0, depth = 7
```

```
iter = 7496, queue = 10899, heur = -7.0, depth = 7
iter = 7497, queue = 10900, heur = -7.0, depth = 7
iter = 7498, queue = 10902, heur = -7.0, depth = 7
iter = 7499, queue = 10903, heur = -7.0, depth = 7
iter = 7500, queue = 10904, heur = -7.0, depth = 7
iter = 7501, queue = 10907, heur = -7.0, depth = 7
iter = 7502, queue = 10908, heur = -7.0, depth = 8
iter = 7503, queue = 10909, heur = -7.0, depth = 7
iter = 7504, queue = 10912, heur = -7.0, depth = 7
iter = 7505, queue = 10914, heur = -7.0, depth = 7
iter = 7506, queue = 10917, heur = -7.0, depth = 7
iter = 7507, queue = 10920, heur = -7.0, depth = 7
iter = 7508, queue = 10920, heur = -7.0, depth = 7
iter = 7509, queue = 10919, heur = -7.0, depth = 7
iter = 7510, queue = 10920, heur = -7.0, depth = 7
iter = 7511, queue = 10921, heur = -7.0, depth = 7
iter = 7512, queue = 10924, heur = -7.0, depth = 7
iter = 7513, queue = 10924, heur = -7.0, depth = 7
iter = 7514, queue = 10925, heur = -7.0, depth = 7
iter = 7515, queue = 10928, heur = -7.0, depth = 7
iter = 7516, queue = 10931, heur = -7.0, depth = 7
iter = 7517, queue = 10933, heur = -7.0, depth = 7
iter = 7518, queue = 10936, heur = -7.0, depth = 7
iter = 7519, queue = 10938, heur = -7.0, depth = 7
iter = 7520, queue = 10939, heur = -7.0, depth = 7
iter = 7521, queue = 10940, heur = -7.0, depth = 7
iter = 7522, queue = 10941, heur = -7.0, depth = 7
iter = 7523, queue = 10942, heur = -7.0, depth = 7
iter = 7524, queue = 10941, heur = -7.0, depth = 7
iter = 7525, queue = 10940, heur = -7.0, depth = 7
iter = 7526, queue = 10943, heur = -7.0, depth = 7
iter = 7527, queue = 10945, heur = -7.0, depth = 7
iter = 7528, queue = 10946, heur = -7.0, depth = 7
iter = 7529, queue = 10947, heur = -7.0, depth = 7
iter = 7530, queue = 10948, heur = -7.0, depth = 7
iter = 7531, queue = 10949, heur = -7.0, depth = 7
iter = 7532, queue = 10952, heur = -7.0, depth = 7
iter = 7533, queue = 10954, heur = -7.0, depth = 7
iter = 7534, queue = 10957, heur = -7.0, depth = 7
iter = 7535, queue = 10958, heur = -7.0, depth = 7
iter = 7536, queue = 10961, heur = -7.0, depth = 7
iter = 7537, queue = 10962, heur = -7.0, depth = 7
iter = 7538, queue = 10961, heur = -7.0, depth = 7
iter = 7539, queue = 10963, heur = -7.0, depth = 7
iter = 7540, queue = 10963, heur = -7.0, depth = 7
iter = 7541, queue = 10963, heur = -7.0, depth = 7
iter = 7542, queue = 10965, heur = -7.0, depth = 7
iter = 7543, queue = 10966, heur = -7.0, depth = 7
iter = 7544, queue = 10967, heur = -7.0, depth = 7
iter = 7545, queue = 10970, heur = -7.0, depth = 7
iter = 7546, queue = 10973, heur = -7.0, depth = 7
iter = 7547, queue = 10975, heur = -7.0, depth = 7
iter = 7548, queue = 10978, heur = -7.0, depth = 7
iter = 7549, queue = 10981, heur = -7.0, depth = 7
iter = 7550, queue = 10981, heur = -7.0, depth = 7
iter = 7551, queue = 10984, heur = -7.0, depth = 7
iter = 7552, queue = 10983, heur = -7.0, depth = 7
iter = 7553, queue = 10985, heur = -7.0, depth = 7
iter = 7554, queue = 10987, heur = -7.0, depth = 7
```

```
iter = 7555, queue = 10989, heur = -7.0, depth = 7
iter = 7556, queue = 10990, heur = -7.0, depth = 7
iter = 7557, queue = 10992, heur = -7.0, depth = 7
iter = 7558, queue = 10994, heur = -7.0, depth = 7
iter = 7559, queue = 10993, heur = -7.0, depth = 7
iter = 7560, queue = 10995, heur = -7.0, depth = 7
iter = 7561, queue = 10998, heur = -7.0, depth = 7
iter = 7562, queue = 10999, heur = -7.0, depth = 7
iter = 7563, queue = 11000, heur = -7.0, depth = 7
iter = 7564, queue = 10999, heur = -7.0, depth = 7
iter = 7565, queue = 10998, heur = -7.0, depth = 7
iter = 7566, queue = 10999, heur = -7.0, depth = 7
iter = 7567, queue = 11002, heur = -7.0, depth = 7
iter = 7568, queue = 11003, heur = -7.0, depth = 7
iter = 7569, queue = 11004, heur = -7.0, depth = 7
iter = 7570, queue = 11003, heur = -7.0, depth = 7
iter = 7571, queue = 11004, heur = -7.0, depth = 7
iter = 7572, queue = 11005, heur = -7.0, depth = 7
iter = 7573, queue = 11006, heur = -7.0, depth = 8
iter = 7574, queue = 11007, heur = -7.0, depth = 7
iter = 7575, queue = 11008, heur = -7.0, depth = 7
iter = 7576, queue = 11011, heur = -7.0, depth = 7
iter = 7577, queue = 11014, heur = -7.0, depth = 7
iter = 7578, queue = 11014, heur = -7.0, depth = 7
iter = 7579, queue = 11015, heur = -7.0, depth = 7
iter = 7580, queue = 11018, heur = -7.0, depth = 7
iter = 7581, queue = 11018, heur = -7.0, depth = 7
iter = 7582, queue = 11019, heur = -7.0, depth = 7
iter = 7583, queue = 11020, heur = -7.0, depth = 7
iter = 7584, queue = 11021, heur = -7.0, depth = 7
iter = 7585, queue = 11024, heur = -7.0, depth = 7
iter = 7586, queue = 11025, heur = -7.0, depth = 7
iter = 7587, queue = 11028, heur = -7.0, depth = 7
iter = 7588, queue = 11027, heur = -7.0, depth = 7
iter = 7589, queue = 11028, heur = -7.0, depth = 7
iter = 7590, queue = 11028, heur = -7.0, depth = 7
iter = 7591, queue = 11027, heur = -7.0, depth = 7
iter = 7592, queue = 11028, heur = -7.0, depth = 7
iter = 7593, queue = 11029, heur = -7.0, depth = 7
iter = 7594, queue = 11030, heur = -7.0, depth = 7
iter = 7595, queue = 11031, heur = -7.0, depth = 7
iter = 7596, queue = 11030, heur = -7.0, depth = 7
iter = 7597, queue = 11030, heur = -7.0, depth = 7
iter = 7598, queue = 11032, heur = -7.0, depth = 7
iter = 7599, queue = 11035, heur = -7.0, depth = 7
iter = 7600, queue = 11037, heur = -7.0, depth = 7
iter = 7601, queue = 11038, heur = -7.0, depth = 7
iter = 7602, queue = 11040, heur = -7.0, depth = 7
iter = 7603, queue = 11043, heur = -7.0, depth = 7
iter = 7604, queue = 11044, heur = -7.0, depth = 7
iter = 7605, queue = 11045, heur = -7.0, depth = 7
iter = 7606, queue = 11044, heur = -7.0, depth = 7
iter = 7607, queue = 11043, heur = -7.0, depth = 7
iter = 7608, queue = 11044, heur = -7.0, depth = 7
iter = 7609, queue = 11044, heur = -7.0, depth = 7
iter = 7610, queue = 11045, heur = -7.0, depth = 7
iter = 7611, queue = 11046, heur = -7.0, depth = 7
iter = 7612, queue = 11047, heur = -7.0, depth = 7
iter = 7613, queue = 11048, heur = -7.0, depth = 7
```

```
iter = 7614, queue = 11049, heur = -7.0, depth = 7
iter = 7615, queue = 11048, heur = -7.0, depth = 7
iter = 7616, queue = 11048, heur = -7.0, depth = 7
iter = 7617, queue = 11049, heur = -7.0, depth = 7
iter = 7618, queue = 11052, heur = -7.0, depth = 7
iter = 7619, queue = 11053, heur = -7.0, depth = 7
iter = 7620, queue = 11054, heur = -7.0, depth = 7
iter = 7621, queue = 11055, heur = -7.0, depth = 7
iter = 7622, queue = 11055, heur = -7.0, depth = 7
iter = 7623, queue = 11057, heur = -7.0, depth = 8
iter = 7624, queue = 11058, heur = -7.0, depth = 7
iter = 7625, queue = 11060, heur = -7.0, depth = 7
iter = 7626, queue = 11061, heur = -7.0, depth = 7
iter = 7627, queue = 11062, heur = -7.0, depth = 7
iter = 7628, queue = 11061, heur = -7.0, depth = 7
iter = 7629, queue = 11063, heur = -7.0, depth = 7
iter = 7630, queue = 11063, heur = -7.0, depth = 7
iter = 7631, queue = 11065, heur = -7.0, depth = 7
iter = 7632, queue = 11068, heur = -7.0, depth = 7
iter = 7633, queue = 11069, heur = -7.0, depth = 7
iter = 7634, queue = 11068, heur = -7.0, depth = 7
iter = 7635, queue = 11071, heur = -7.0, depth = 7
iter = 7636, queue = 11072, heur = -7.0, depth = 7
iter = 7637, queue = 11073, heur = -7.0, depth = 7
iter = 7638, queue = 11072, heur = -7.0, depth = 7
iter = 7639, queue = 11072, heur = -7.0, depth = 7
iter = 7640, queue = 11073, heur = -7.0, depth = 7
iter = 7641, queue = 11074, heur = -7.0, depth = 7
iter = 7642, queue = 11075, heur = -7.0, depth = 7
iter = 7643, queue = 11074, heur = -7.0, depth = 7
iter = 7644, queue = 11077, heur = -7.0, depth = 9
iter = 7645, queue = 11079, heur = -7.0, depth = 8
iter = 7646, queue = 11081, heur = -7.0, depth = 7
iter = 7647, queue = 11082, heur = -7.0, depth = 7
iter = 7648, queue = 11083, heur = -7.0, depth = 7
iter = 7649, queue = 11082, heur = -7.0, depth = 7
iter = 7650, queue = 11084, heur = -7.0, depth = 7
iter = 7651, queue = 11085, heur = -7.0, depth = 7
iter = 7652, queue = 11087, heur = -7.0, depth = 7
iter = 7653, queue = 11088, heur = -7.0, depth = 7
iter = 7654, queue = 11088, heur = -7.0, depth = 7
iter = 7655, queue = 11089, heur = -7.0, depth = 7
iter = 7656, queue = 11090, heur = -7.0, depth = 7
iter = 7657, queue = 11091, heur = -7.0, depth = 7
iter = 7658, queue = 11091, heur = -7.0, depth = 7
iter = 7659, queue = 11092, heur = -7.0, depth = 7
iter = 7660, queue = 11093, heur = -7.0, depth = 10
iter = 7661, queue = 11093, heur = -7.0, depth = 7
iter = 7662, queue = 11094, heur = -7.0, depth = 7
iter = 7663, queue = 11097, heur = -7.0, depth = 7
iter = 7664, queue = 11099, heur = -7.0, depth = 7
iter = 7665, queue = 11101, heur = -7.0, depth = 8
iter = 7666, queue = 11100, heur = -7.0, depth = 8
iter = 7667, queue = 11100, heur = -7.0, depth = 7
iter = 7668, queue = 11103, heur = -7.0, depth = 8
iter = 7669, queue = 11105, heur = -7.0, depth = 7
iter = 7670, queue = 11106, heur = -7.0, depth = 7
iter = 7671, queue = 11109, heur = -7.0, depth = 7
iter = 7672, queue = 11109, heur = -7.0, depth = 7
```

```
iter = 7673, queue = 11111, heur = -7.0, depth = 7
iter = 7674, queue = 11114, heur = -7.0, depth = 7
iter = 7675, queue = 11114, heur = -7.0, depth = 7
iter = 7676, queue = 11117, heur = -7.0, depth = 7
iter = 7677, queue = 11118, heur = -7.0, depth = 7
iter = 7678, queue = 11119, heur = -7.0, depth = 7
iter = 7679, queue = 11118, heur = -7.0, depth = 7
iter = 7680, queue = 11121, heur = -7.0, depth = 7
iter = 7681, queue = 11120, heur = -7.0, depth = 7
iter = 7682, queue = 11119, heur = -7.0, depth = 7
iter = 7683, queue = 11121, heur = -7.0, depth = 7
iter = 7684, queue = 11122, heur = -7.0, depth = 7
iter = 7685, queue = 11121, heur = -7.0, depth = 7
iter = 7686, queue = 11122, heur = -7.0, depth = 7
iter = 7687, queue = 11122, heur = -7.0, depth = 7
iter = 7688, queue = 11123, heur = -7.0, depth = 7
iter = 7689, queue = 11124, heur = -7.0, depth = 7
iter = 7690, queue = 11125, heur = -7.0, depth = 7
iter = 7691, queue = 11126, heur = -7.0, depth = 7
iter = 7692, queue = 11127, heur = -7.0, depth = 7
iter = 7693, queue = 11128, heur = -7.0, depth = 7
iter = 7694, queue = 11131, heur = -7.0, depth = 7
iter = 7695, queue = 11132, heur = -7.0, depth = 7
iter = 7696, queue = 11135, heur = -7.0, depth = 7
iter = 7697, queue = 11137, heur = -7.0, depth = 7
iter = 7698, queue = 11136, heur = -7.0, depth = 7
iter = 7699, queue = 11135, heur = -7.0, depth = 7
iter = 7700, queue = 11136, heur = -7.0, depth = 7
iter = 7701, queue = 11139, heur = -7.0, depth = 7
iter = 7702, queue = 11139, heur = -7.0, depth = 7
iter = 7703, queue = 11140, heur = -7.0, depth = 7
iter = 7704, queue = 11141, heur = -7.0, depth = 7
iter = 7705, queue = 11142, heur = -7.0, depth = 7
iter = 7706, queue = 11143, heur = -7.0, depth = 7
iter = 7707, queue = 11144, heur = -7.0, depth = 7
iter = 7708, queue = 11145, heur = -7.0, depth = 7
iter = 7709, queue = 11146, heur = -7.0, depth = 7
iter = 7710, queue = 11145, heur = -7.0, depth = 7
iter = 7711, queue = 11146, heur = -7.0, depth = 7
iter = 7712, queue = 11145, heur = -7.0, depth = 7
iter = 7713, queue = 11144, heur = -7.0, depth = 7
iter = 7714, queue = 11145, heur = -7.0, depth = 7
iter = 7715, queue = 11146, heur = -7.0, depth = 7
iter = 7716, queue = 11147, heur = -7.0, depth = 7
iter = 7717, queue = 11149, heur = -7.0, depth = 7
iter = 7718, queue = 11150, heur = -7.0, depth = 7
iter = 7719, queue = 11153, heur = -7.0, depth = 7
iter = 7720, queue = 11152, heur = -7.0, depth = 7
iter = 7721, queue = 11154, heur = -7.0, depth = 7
iter = 7722, queue = 11157, heur = -7.0, depth = 7
iter = 7723, queue = 11158, heur = -7.0, depth = 7
iter = 7724, queue = 11159, heur = -7.0, depth = 7
iter = 7725, queue = 11160, heur = -7.0, depth = 7
iter = 7726, queue = 11163, heur = -7.0, depth = 7
iter = 7727, queue = 11166, heur = -7.0, depth = 7
iter = 7728, queue = 11167, heur = -7.0, depth = 7
iter = 7729, queue = 11168, heur = -7.0, depth = 7
iter = 7730, queue = 11171, heur = -7.0, depth = 7
iter = 7731, queue = 11170, heur = -7.0, depth = 7
```

```
iter = 7732, queue = 11171, heur = -7.0, depth = 7
iter = 7733, queue = 11173, heur = -7.0, depth = 7
iter = 7734, queue = 11172, heur = -7.0, depth = 7
iter = 7735, queue = 11172, heur = -7.0, depth = 7
iter = 7736, queue = 11174, heur = -7.0, depth = 9
iter = 7737, queue = 11175, heur = -7.0, depth = 7
iter = 7738, queue = 11176, heur = -7.0, depth = 7
iter = 7739, queue = 11178, heur = -7.0, depth = 10
iter = 7740, queue = 11179, heur = -7.0, depth = 7
iter = 7741, queue = 11180, heur = -7.0, depth = 7
iter = 7742, queue = 11182, heur = -7.0, depth = 7
iter = 7743, queue = 11183, heur = -7.0, depth = 7
iter = 7744, queue = 11186, heur = -7.0, depth = 7
iter = 7745, queue = 11187, heur = -7.0, depth = 7
iter = 7746, queue = 11188, heur = -7.0, depth = 7
iter = 7747, queue = 11189, heur = -7.0, depth = 7
iter = 7748, queue = 11190, heur = -7.0, depth = 7
iter = 7749, queue = 11191, heur = -7.0, depth = 7
iter = 7750, queue = 11192, heur = -7.0, depth = 7
iter = 7751, queue = 11194, heur = -7.0, depth = 7
iter = 7752, queue = 11195, heur = -7.0, depth = 7
iter = 7753, queue = 11194, heur = -7.0, depth = 7
iter = 7754, queue = 11197, heur = -7.0, depth = 7
iter = 7755, queue = 11198, heur = -7.0, depth = 7
iter = 7756, queue = 11197, heur = -7.0, depth = 7
iter = 7757, queue = 11198, heur = -7.0, depth = 7
iter = 7758, queue = 11199, heur = -7.0, depth = 7
iter = 7759, queue = 11200, heur = -7.0, depth = 7
iter = 7760, queue = 11199, heur = -7.0, depth = 7
iter = 7761, queue = 11200, heur = -7.0, depth = 7
iter = 7762, queue = 11202, heur = -7.0, depth = 7
iter = 7763, queue = 11204, heur = -7.0, depth = 7
iter = 7764, queue = 11205, heur = -7.0, depth = 7
iter = 7765, queue = 11206, heur = -7.0, depth = 7
iter = 7766, queue = 11207, heur = -7.0, depth = 7
iter = 7767, queue = 11210, heur = -7.0, depth = 7
iter = 7768, queue = 11209, heur = -7.0, depth = 7
iter = 7769, queue = 11209, heur = -7.0, depth = 7
iter = 7770, queue = 11212, heur = -7.0, depth = 7
iter = 7771, queue = 11213, heur = -7.0, depth = 7
iter = 7772, queue = 11215, heur = -7.0, depth = 7
iter = 7773, queue = 11215, heur = -7.0, depth = 7
iter = 7774, queue = 11216, heur = -7.0, depth = 7
iter = 7775, queue = 11217, heur = -7.0, depth = 7
iter = 7776, queue = 11219, heur = -7.0, depth = 7
iter = 7777, queue = 11218, heur = -7.0, depth = 7
iter = 7778, queue = 11219, heur = -7.0, depth = 7
iter = 7779, queue = 11220, heur = -7.0, depth = 7
iter = 7780, queue = 11220, heur = -7.0, depth = 7
iter = 7781, queue = 11221, heur = -7.0, depth = 7
iter = 7782, queue = 11220, heur = -7.0, depth = 7
iter = 7783, queue = 11223, heur = -7.0, depth = 7
iter = 7784, queue = 11225, heur = -7.0, depth = 7
iter = 7785, queue = 11227, heur = -7.0, depth = 7
iter = 7786, queue = 11227, heur = -7.0, depth = 7
iter = 7787, queue = 11229, heur = -7.0, depth = 7
iter = 7788, queue = 11229, heur = -7.0, depth = 7
iter = 7789, queue = 11230, heur = -7.0, depth = 7
iter = 7790, queue = 11231, heur = -7.0, depth = 7
```

```
iter = 7791, queue = 11232, heur = -7.0, depth = 7
iter = 7792, queue = 11231, heur = -7.0, depth = 7
iter = 7793, queue = 11231, heur = -7.0, depth = 7
iter = 7794, queue = 11232, heur = -7.0, depth = 7
iter = 7795, queue = 11231, heur = -7.0, depth = 7
iter = 7796, queue = 11230, heur = -7.0, depth = 7
iter = 7797, queue = 11231, heur = -7.0, depth = 7
iter = 7798, queue = 11234, heur = -7.0, depth = 7
iter = 7799, queue = 11237, heur = -7.0, depth = 7
iter = 7800, queue = 11238, heur = -7.0, depth = 7
iter = 7801, queue = 11238, heur = -7.0, depth = 7
iter = 7802, queue = 11239, heur = -7.0, depth = 7
iter = 7803, queue = 11242, heur = -7.0, depth = 7
iter = 7804, queue = 11243, heur = -7.0, depth = 7
iter = 7805, queue = 11246, heur = -7.0, depth = 7
iter = 7806, queue = 11249, heur = -7.0, depth = 8
iter = 7807, queue = 11248, heur = -7.0, depth = 7
iter = 7808, queue = 11250, heur = -7.0, depth = 7
iter = 7809, queue = 11251, heur = -7.0, depth = 7
iter = 7810, queue = 11251, heur = -7.0, depth = 7
iter = 7811, queue = 11254, heur = -7.0, depth = 7
iter = 7812, queue = 11257, heur = -7.0, depth = 7
iter = 7813, queue = 11256, heur = -7.0, depth = 7
iter = 7814, queue = 11255, heur = -7.0, depth = 7
iter = 7815, queue = 11256, heur = -7.0, depth = 7
iter = 7816, queue = 11257, heur = -7.0, depth = 7
iter = 7817, queue = 11256, heur = -7.0, depth = 7
iter = 7818, queue = 11257, heur = -7.0, depth = 7
iter = 7819, queue = 11256, heur = -7.0, depth = 7
iter = 7820, queue = 11259, heur = -7.0, depth = 7
iter = 7821, queue = 11260, heur = -7.0, depth = 7
iter = 7822, queue = 11262, heur = -7.0, depth = 8
iter = 7823, queue = 11261, heur = -7.0, depth = 7
iter = 7824, queue = 11264, heur = -7.0, depth = 7
iter = 7825, queue = 11267, heur = -7.0, depth = 7
iter = 7826, queue = 11270, heur = -7.0, depth = 7
iter = 7827, queue = 11271, heur = -7.0, depth = 7
iter = 7828, queue = 11271, heur = -7.0, depth = 7
iter = 7829, queue = 11274, heur = -7.0, depth = 7
iter = 7830, queue = 11275, heur = -7.0, depth = 7
iter = 7831, queue = 11276, heur = -7.0, depth = 7
iter = 7832, queue = 11276, heur = -7.0, depth = 7
iter = 7833, queue = 11276, heur = -7.0, depth = 7
iter = 7834, queue = 11279, heur = -7.0, depth = 7
iter = 7835, queue = 11279, heur = -7.0, depth = 7
iter = 7836, queue = 11282, heur = -7.0, depth = 7
iter = 7837, queue = 11285, heur = -7.0, depth = 7
iter = 7838, queue = 11284, heur = -7.0, depth = 7
iter = 7839, queue = 11283, heur = -7.0, depth = 7
iter = 7840, queue = 11284, heur = -7.0, depth = 10
iter = 7841, queue = 11285, heur = -7.0, depth = 7
iter = 7842, queue = 11288, heur = -7.0, depth = 7
iter = 7843, queue = 11291, heur = -7.0, depth = 7
iter = 7844, queue = 11291, heur = -7.0, depth = 7
iter = 7845, queue = 11294, heur = -7.0, depth = 7
iter = 7846, queue = 11294, heur = -7.0, depth = 7
iter = 7847, queue = 11297, heur = -7.0, depth = 7
iter = 7848, queue = 11297, heur = -7.0, depth = 7
iter = 7849, queue = 11300, heur = -7.0, depth = 7
```

```
iter = 7850, queue = 11303, heur = -7.0, depth = 7
iter = 7851, queue = 11304, heur = -7.0, depth = 7
iter = 7852, queue = 11307, heur = -7.0, depth = 7
iter = 7853, queue = 11310, heur = -7.0, depth = 7
iter = 7854, queue = 11313, heur = -7.0, depth = 7
iter = 7855, queue = 11316, heur = -7.0, depth = 7
iter = 7856, queue = 11317, heur = -7.0, depth = 7
iter = 7857, queue = 11316, heur = -7.0, depth = 7
iter = 7858, queue = 11319, heur = -7.0, depth = 8
iter = 7859, queue = 11320, heur = -7.0, depth = 7
iter = 7860, queue = 11321, heur = -7.0, depth = 7
iter = 7861, queue = 11322, heur = -7.0, depth = 9
iter = 7862, queue = 11323, heur = -7.0, depth = 7
iter = 7863, queue = 11326, heur = -7.0, depth = 7
iter = 7864, queue = 11327, heur = -7.0, depth = 7
iter = 7865, queue = 11328, heur = -7.0, depth = 7
iter = 7866, queue = 11327, heur = -7.0, depth = 7
iter = 7867, queue = 11328, heur = -7.0, depth = 7
iter = 7868, queue = 11330, heur = -7.0, depth = 7
iter = 7869, queue = 11331, heur = -7.0, depth = 7
iter = 7870, queue = 11332, heur = -7.0, depth = 7
iter = 7871, queue = 11335, heur = -7.0, depth = 7
iter = 7872, queue = 11336, heur = -7.0, depth = 7
iter = 7873, queue = 11338, heur = -7.0, depth = 7
iter = 7874, queue = 11339, heur = -7.0, depth = 7
iter = 7875, queue = 11339, heur = -7.0, depth = 7
iter = 7876, queue = 11341, heur = -7.0, depth = 7
iter = 7877, queue = 11344, heur = -7.0, depth = 7
iter = 7878, queue = 11343, heur = -7.0, depth = 7
iter = 7879, queue = 11344, heur = -7.0, depth = 7
iter = 7880, queue = 11347, heur = -7.0, depth = 7
iter = 7881, queue = 11348, heur = -7.0, depth = 7
iter = 7882, queue = 11347, heur = -7.0, depth = 7
iter = 7883, queue = 11348, heur = -7.0, depth = 7
iter = 7884, queue = 11349, heur = -7.0, depth = 7
iter = 7885, queue = 11352, heur = -7.0, depth = 7
iter = 7886, queue = 11354, heur = -7.0, depth = 7
iter = 7887, queue = 11355, heur = -7.0, depth = 7
iter = 7888, queue = 11355, heur = -7.0, depth = 7
iter = 7889, queue = 11356, heur = -7.0, depth = 7
iter = 7890, queue = 11359, heur = -7.0, depth = 7
iter = 7891, queue = 11360, heur = -7.0, depth = 7
iter = 7892, queue = 11362, heur = -7.0, depth = 7
iter = 7893, queue = 11364, heur = -7.0, depth = 7
iter = 7894, queue = 11366, heur = -7.0, depth = 7
iter = 7895, queue = 11367, heur = -7.0, depth = 7
iter = 7896, queue = 11368, heur = -7.0, depth = 7
iter = 7897, queue = 11368, heur = -7.0, depth = 7
iter = 7898, queue = 11371, heur = -7.0, depth = 7
iter = 7899, queue = 11371, heur = -7.0, depth = 7
iter = 7900, queue = 11374, heur = -7.0, depth = 7
iter = 7901, queue = 11377, heur = -7.0, depth = 7
iter = 7902, queue = 11380, heur = -7.0, depth = 7
iter = 7903, queue = 11381, heur = -7.0, depth = 7
iter = 7904, queue = 11382, heur = -7.0, depth = 7
iter = 7905, queue = 11385, heur = -7.0, depth = 7
iter = 7906, queue = 11386, heur = -7.0, depth = 7
iter = 7907, queue = 11385, heur = -7.0, depth = 7
iter = 7908, queue = 11384, heur = -7.0, depth = 7
```

```
iter = 7909, queue = 11385, heur = -7.0, depth = 7
iter = 7910, queue = 11387, heur = -7.0, depth = 7
iter = 7911, queue = 11389, heur = -7.0, depth = 7
iter = 7912, queue = 11388, heur = -7.0, depth = 7
iter = 7913, queue = 11387, heur = -7.0, depth = 7
iter = 7914, queue = 11389, heur = -7.0, depth = 7
iter = 7915, queue = 11390, heur = -7.0, depth = 7
iter = 7916, queue = 11392, heur = -7.0, depth = 7
iter = 7917, queue = 11394, heur = -7.0, depth = 7
iter = 7918, queue = 11395, heur = -7.0, depth = 7
iter = 7919, queue = 11396, heur = -7.0, depth = 7
iter = 7920, queue = 11396, heur = -7.0, depth = 7
iter = 7921, queue = 11397, heur = -7.0, depth = 7
iter = 7922, queue = 11398, heur = -7.0, depth = 7
iter = 7923, queue = 11399, heur = -7.0, depth = 7
iter = 7924, queue = 11400, heur = -7.0, depth = 7
iter = 7925, queue = 11403, heur = -7.0, depth = 7
iter = 7926, queue = 11404, heur = -7.0, depth = 7
iter = 7927, queue = 11403, heur = -7.0, depth = 7
iter = 7928, queue = 11405, heur = -7.0, depth = 7
iter = 7929, queue = 11408, heur = -7.0, depth = 7
iter = 7930, queue = 11407, heur = -7.0, depth = 7
iter = 7931, queue = 11409, heur = -7.0, depth = 7
iter = 7932, queue = 11412, heur = -7.0, depth = 7
iter = 7933, queue = 11415, heur = -7.0, depth = 7
iter = 7934, queue = 11418, heur = -7.0, depth = 7
iter = 7935, queue = 11419, heur = -7.0, depth = 7
iter = 7936, queue = 11422, heur = -7.0, depth = 7
iter = 7937, queue = 11425, heur = -7.0, depth = 7
iter = 7938, queue = 11426, heur = -7.0, depth = 7
iter = 7939, queue = 11427, heur = -7.0, depth = 7
iter = 7940, queue = 11426, heur = -7.0, depth = 7
iter = 7941, queue = 11429, heur = -7.0, depth = 7
iter = 7942, queue = 11430, heur = -7.0, depth = 7
iter = 7943, queue = 11433, heur = -7.0, depth = 7
iter = 7944, queue = 11432, heur = -7.0, depth = 7
iter = 7945, queue = 11431, heur = -7.0, depth = 7
iter = 7946, queue = 11432, heur = -7.0, depth = 7
iter = 7947, queue = 11434, heur = -7.0, depth = 7
iter = 7948, queue = 11434, heur = -7.0, depth = 7
iter = 7949, queue = 11433, heur = -7.0, depth = 7
iter = 7950, queue = 11432, heur = -7.0, depth = 7
iter = 7951, queue = 11434, heur = -7.0, depth = 7
iter = 7952, queue = 11436, heur = -7.0, depth = 7
iter = 7953, queue = 11436, heur = -7.0, depth = 7
iter = 7954, queue = 11439, heur = -7.0, depth = 7
iter = 7955, queue = 11442, heur = -7.0, depth = 7
iter = 7956, queue = 11444, heur = -7.0, depth = 7
iter = 7957, queue = 11447, heur = -7.0, depth = 7
iter = 7958, queue = 11450, heur = -7.0, depth = 7
iter = 7959, queue = 11451, heur = -7.0, depth = 7
iter = 7960, queue = 11454, heur = -7.0, depth = 7
iter = 7961, queue = 11454, heur = -7.0, depth = 7
iter = 7962, queue = 11453, heur = -7.0, depth = 7
iter = 7963, queue = 11453, heur = -7.0, depth = 7
iter = 7964, queue = 11452, heur = -7.0, depth = 7
iter = 7965, queue = 11454, heur = -7.0, depth = 7
iter = 7966, queue = 11457, heur = -7.0, depth = 7
iter = 7967, queue = 11458, heur = -7.0, depth = 7
```

```
iter = 7968, queue = 11458, heur = -7.0, depth = 7
iter = 7969, queue = 11459, heur = -7.0, depth = 7
iter = 7970, queue = 11462, heur = -7.0, depth = 7
iter = 7971, queue = 11463, heur = -7.0, depth = 7
iter = 7972, queue = 11466, heur = -7.0, depth = 7
iter = 7973, queue = 11465, heur = -7.0, depth = 7
iter = 7974, queue = 11466, heur = -7.0, depth = 7
iter = 7975, queue = 11468, heur = -7.0, depth = 7
iter = 7976, queue = 11470, heur = -7.0, depth = 7
iter = 7977, queue = 11471, heur = -7.0, depth = 7
iter = 7978, queue = 11473, heur = -7.0, depth = 7
iter = 7979, queue = 11475, heur = -7.0, depth = 7
iter = 7980, queue = 11476, heur = -7.0, depth = 7
iter = 7981, queue = 11479, heur = -7.0, depth = 7
iter = 7982, queue = 11482, heur = -7.0, depth = 7
iter = 7983, queue = 11481, heur = -7.0, depth = 7
iter = 7984, queue = 11482, heur = -7.0, depth = 7
iter = 7985, queue = 11485, heur = -7.0, depth = 7
iter = 7986, queue = 11486, heur = -7.0, depth = 7
iter = 7987, queue = 11485, heur = -7.0, depth = 7
iter = 7988, queue = 11487, heur = -7.0, depth = 7
iter = 7989, queue = 11488, heur = -7.0, depth = 7
iter = 7990, queue = 11487, heur = -7.0, depth = 7
iter = 7991, queue = 11487, heur = -7.0, depth = 7
iter = 7992, queue = 11490, heur = -7.0, depth = 7
iter = 7993, queue = 11491, heur = -7.0, depth = 7
iter = 7994, queue = 11492, heur = -7.0, depth = 7
iter = 7995, queue = 11491, heur = -7.0, depth = 8
iter = 7996, queue = 11492, heur = -7.0, depth = 7
iter = 7997, queue = 11493, heur = -7.0, depth = 7
iter = 7998, queue = 11492, heur = -7.0, depth = 7
iter = 7999, queue = 11492, heur = -7.0, depth = 7
iter = 8000, queue = 11495, heur = -7.0, depth = 7
iter = 8001, queue = 11498, heur = -7.0, depth = 7
iter = 8002, queue = 11497, heur = -7.0, depth = 7
iter = 8003, queue = 11497, heur = -7.0, depth = 7
iter = 8004, queue = 11496, heur = -7.0, depth = 7
iter = 8005, queue = 11499, heur = -7.0, depth = 7
iter = 8006, queue = 11501, heur = -7.0, depth = 7
iter = 8007, queue = 11504, heur = -7.0, depth = 7
iter = 8008, queue = 11507, heur = -7.0, depth = 7
iter = 8009, queue = 11507, heur = -7.0, depth = 7
iter = 8010, queue = 11510, heur = -7.0, depth = 7
iter = 8011, queue = 11513, heur = -7.0, depth = 7
iter = 8012, queue = 11516, heur = -7.0, depth = 7
iter = 8013, queue = 11518, heur = -7.0, depth = 7
iter = 8014, queue = 11519, heur = -7.0, depth = 7
iter = 8015, queue = 11520, heur = -7.0, depth = 7
iter = 8016, queue = 11521, heur = -7.0, depth = 7
iter = 8017, queue = 11522, heur = -7.0, depth = 7
iter = 8018, queue = 11524, heur = -7.0, depth = 7
iter = 8019, queue = 11527, heur = -7.0, depth = 7
iter = 8020, queue = 11530, heur = -7.0, depth = 7
iter = 8021, queue = 11531, heur = -7.0, depth = 7
iter = 8022, queue = 11532, heur = -7.0, depth = 7
iter = 8023, queue = 11533, heur = -7.0, depth = 7
iter = 8024, queue = 11536, heur = -7.0, depth = 7
iter = 8025, queue = 11537, heur = -7.0, depth = 7
iter = 8026, queue = 11538, heur = -7.0, depth = 7
```

```
iter = 8027, queue = 11539, heur = -7.0, depth = 7
iter = 8028, queue = 11542, heur = -7.0, depth = 7
iter = 8029, queue = 11541, heur = -7.0, depth = 7
iter = 8030, queue = 11542, heur = -7.0, depth = 7
iter = 8031, queue = 11545, heur = -7.0, depth = 7
iter = 8032, queue = 11546, heur = -7.0, depth = 7
iter = 8033, queue = 11547, heur = -7.0, depth = 7
iter = 8034, queue = 11548, heur = -7.0, depth = 7
iter = 8035, queue = 11549, heur = -7.0, depth = 7
iter = 8036, queue = 11548, heur = -7.0, depth = 7
iter = 8037, queue = 11547, heur = -7.0, depth = 7
iter = 8038, queue = 11548, heur = -7.0, depth = 7
iter = 8039, queue = 11549, heur = -7.0, depth = 7
iter = 8040, queue = 11552, heur = -7.0, depth = 7
iter = 8041, queue = 11552, heur = -7.0, depth = 7
iter = 8042, queue = 11553, heur = -7.0, depth = 7
iter = 8043, queue = 11554, heur = -7.0, depth = 7
iter = 8044, queue = 11557, heur = -7.0, depth = 7
iter = 8045, queue = 11558, heur = -7.0, depth = 7
iter = 8046, queue = 11558, heur = -7.0, depth = 7
iter = 8047, queue = 11560, heur = -7.0, depth = 7
iter = 8048, queue = 11559, heur = -7.0, depth = 7
iter = 8049, queue = 11562, heur = -7.0, depth = 7
iter = 8050, queue = 11561, heur = -7.0, depth = 7
iter = 8051, queue = 11562, heur = -7.0, depth = 7
iter = 8052, queue = 11564, heur = -7.0, depth = 7
iter = 8053, queue = 11566, heur = -7.0, depth = 7
iter = 8054, queue = 11567, heur = -7.0, depth = 7
iter = 8055, queue = 11568, heur = -7.0, depth = 7
iter = 8056, queue = 11570, heur = -7.0, depth = 7
iter = 8057, queue = 11573, heur = -7.0, depth = 7
iter = 8058, queue = 11576, heur = -7.0, depth = 7
iter = 8059, queue = 11577, heur = -7.0, depth = 7
iter = 8060, queue = 11578, heur = -7.0, depth = 7
iter = 8061, queue = 11579, heur = -7.0, depth = 7
iter = 8062, queue = 11580, heur = -7.0, depth = 7
iter = 8063, queue = 11581, heur = -7.0, depth = 7
iter = 8064, queue = 11581, heur = -7.0, depth = 7
iter = 8065, queue = 11584, heur = -7.0, depth = 7
iter = 8066, queue = 11583, heur = -7.0, depth = 7
iter = 8067, queue = 11584, heur = -7.0, depth = 7
iter = 8068, queue = 11585, heur = -7.0, depth = 7
iter = 8069, queue = 11585, heur = -7.0, depth = 7
iter = 8070, queue = 11586, heur = -7.0, depth = 7
iter = 8071, queue = 11588, heur = -7.0, depth = 7
iter = 8072, queue = 11589, heur = -7.0, depth = 8
iter = 8073, queue = 11590, heur = -7.0, depth = 7
iter = 8074, queue = 11591, heur = -7.0, depth = 8
iter = 8075, queue = 11593, heur = -7.0, depth = 7
iter = 8076, queue = 11594, heur = -7.0, depth = 7
iter = 8077, queue = 11597, heur = -7.0, depth = 7
iter = 8078, queue = 11598, heur = -7.0, depth = 7
iter = 8079, queue = 11599, heur = -7.0, depth = 7
iter = 8080, queue = 11602, heur = -7.0, depth = 7
iter = 8081, queue = 11602, heur = -7.0, depth = 7
iter = 8082, queue = 11605, heur = -7.0, depth = 7
iter = 8083, queue = 11606, heur = -7.0, depth = 7
iter = 8084, queue = 11608, heur = -7.0, depth = 7
iter = 8085, queue = 11607, heur = -7.0, depth = 7
```

```
iter = 8086, queue = 11610, heur = -7.0, depth = 7
iter = 8087, queue = 11613, heur = -7.0, depth = 7
iter = 8088, queue = 11614, heur = -7.0, depth = 7
iter = 8089, queue = 11615, heur = -7.0, depth = 7
iter = 8090, queue = 11616, heur = -7.0, depth = 7
iter = 8091, queue = 11616, heur = -7.0, depth = 7
iter = 8092, queue = 11617, heur = -7.0, depth = 7
iter = 8093, queue = 11618, heur = -7.0, depth = 7
iter = 8094, queue = 11617, heur = -7.0, depth = 7
iter = 8095, queue = 11618, heur = -7.0, depth = 7
iter = 8096, queue = 11618, heur = -7.0, depth = 7
iter = 8097, queue = 11619, heur = -7.0, depth = 7
iter = 8098, queue = 11620, heur = -7.0, depth = 7
iter = 8099, queue = 11619, heur = -7.0, depth = 7
iter = 8100, queue = 11620, heur = -7.0, depth = 7
iter = 8101, queue = 11621, heur = -7.0, depth = 7
iter = 8102, queue = 11624, heur = -7.0, depth = 7
iter = 8103, queue = 11624, heur = -7.0, depth = 7
iter = 8104, queue = 11624, heur = -7.0, depth = 7
iter = 8105, queue = 11623, heur = -7.0, depth = 7
iter = 8106, queue = 11624, heur = -7.0, depth = 7
iter = 8107, queue = 11625, heur = -7.0, depth = 7
iter = 8108, queue = 11626, heur = -7.0, depth = 7
iter = 8109, queue = 11629, heur = -7.0, depth = 8
iter = 8110, queue = 11630, heur = -7.0, depth = 7
iter = 8111, queue = 11631, heur = -7.0, depth = 7
iter = 8112, queue = 11634, heur = -7.0, depth = 7
iter = 8113, queue = 11635, heur = -7.0, depth = 7
iter = 8114, queue = 11636, heur = -7.0, depth = 7
iter = 8115, queue = 11639, heur = -7.0, depth = 7
iter = 8116, queue = 11642, heur = -7.0, depth = 7
iter = 8117, queue = 11641, heur = -7.0, depth = 7
iter = 8118, queue = 11643, heur = -7.0, depth = 7
iter = 8119, queue = 11646, heur = -7.0, depth = 7
iter = 8120, queue = 11646, heur = -7.0, depth = 7
iter = 8121, queue = 11649, heur = -7.0, depth = 7
iter = 8122, queue = 11652, heur = -7.0, depth = 7
iter = 8123, queue = 11653, heur = -7.0, depth = 7
iter = 8124, queue = 11656, heur = -7.0, depth = 7
iter = 8125, queue = 11656, heur = -7.0, depth = 7
iter = 8126, queue = 11655, heur = -7.0, depth = 7
iter = 8127, queue = 11655, heur = -7.0, depth = 7
iter = 8128, queue = 11655, heur = -7.0, depth = 7
iter = 8129, queue = 11658, heur = -7.0, depth = 7
iter = 8130, queue = 11661, heur = -7.0, depth = 7
iter = 8131, queue = 11663, heur = -7.0, depth = 7
iter = 8132, queue = 11665, heur = -7.0, depth = 7
iter = 8133, queue = 11666, heur = -7.0, depth = 7
iter = 8134, queue = 11667, heur = -7.0, depth = 7
iter = 8135, queue = 11666, heur = -7.0, depth = 7
iter = 8136, queue = 11669, heur = -7.0, depth = 8
iter = 8137, queue = 11670, heur = -7.0, depth = 7
iter = 8138, queue = 11671, heur = -7.0, depth = 7
iter = 8139, queue = 11674, heur = -7.0, depth = 7
iter = 8140, queue = 11676, heur = -7.0, depth = 7
iter = 8141, queue = 11677, heur = -7.0, depth = 7
iter = 8142, queue = 11676, heur = -7.0, depth = 7
iter = 8143, queue = 11679, heur = -7.0, depth = 7
iter = 8144, queue = 11682, heur = -7.0, depth = 7
```

```
iter = 8145, queue = 11685, heur = -7.0, depth = 7
iter = 8146, queue = 11686, heur = -7.0, depth = 7
iter = 8147, queue = 11687, heur = -7.0, depth = 7
iter = 8148, queue = 11689, heur = -7.0, depth = 7
iter = 8149, queue = 11688, heur = -7.0, depth = 7
iter = 8150, queue = 11689, heur = -7.0, depth = 7
iter = 8151, queue = 11692, heur = -7.0, depth = 7
iter = 8152, queue = 11695, heur = -7.0, depth = 7
iter = 8153, queue = 11697, heur = -7.0, depth = 7
iter = 8154, queue = 11698, heur = -7.0, depth = 7
iter = 8155, queue = 11699, heur = -7.0, depth = 7
iter = 8156, queue = 11701, heur = -7.0, depth = 7
iter = 8157, queue = 11704, heur = -7.0, depth = 7
iter = 8158, queue = 11707, heur = -7.0, depth = 7
iter = 8159, queue = 11710, heur = -7.0, depth = 7
iter = 8160, queue = 11710, heur = -7.0, depth = 7
iter = 8161, queue = 11709, heur = -7.0, depth = 7
iter = 8162, queue = 11709, heur = -7.0, depth = 7
iter = 8163, queue = 11712, heur = -7.0, depth = 7
iter = 8164, queue = 11715, heur = -7.0, depth = 7
iter = 8165, queue = 11716, heur = -7.0, depth = 7
iter = 8166, queue = 11717, heur = -7.0, depth = 7
iter = 8167, queue = 11718, heur = -7.0, depth = 7
iter = 8168, queue = 11721, heur = -7.0, depth = 7
iter = 8169, queue = 11722, heur = -7.0, depth = 7
iter = 8170, queue = 11722, heur = -7.0, depth = 7
iter = 8171, queue = 11721, heur = -7.0, depth = 7
iter = 8172, queue = 11723, heur = -7.0, depth = 7
iter = 8173, queue = 11724, heur = -7.0, depth = 7
iter = 8174, queue = 11726, heur = -7.0, depth = 7
iter = 8175, queue = 11728, heur = -7.0, depth = 7
iter = 8176, queue = 11731, heur = -7.0, depth = 7
iter = 8177, queue = 11732, heur = -7.0, depth = 7
iter = 8178, queue = 11731, heur = -7.0, depth = 7
iter = 8179, queue = 11731, heur = -7.0, depth = 7
iter = 8180, queue = 11734, heur = -7.0, depth = 7
iter = 8181, queue = 11735, heur = -7.0, depth = 7
iter = 8182, queue = 11736, heur = -7.0, depth = 7
iter = 8183, queue = 11737, heur = -7.0, depth = 7
iter = 8184, queue = 11737, heur = -7.0, depth = 7
iter = 8185, queue = 11738, heur = -7.0, depth = 7
iter = 8186, queue = 11739, heur = -7.0, depth = 7
iter = 8187, queue = 11741, heur = -7.0, depth = 7
iter = 8188, queue = 11741, heur = -7.0, depth = 7
iter = 8189, queue = 11742, heur = -7.0, depth = 7
iter = 8190, queue = 11743, heur = -7.0, depth = 7
iter = 8191, queue = 11745, heur = -7.0, depth = 8
iter = 8192, queue = 11746, heur = -7.0, depth = 7
iter = 8193, queue = 11747, heur = -7.0, depth = 7
iter = 8194, queue = 11748, heur = -7.0, depth = 7
iter = 8195, queue = 11749, heur = -7.0, depth = 7
iter = 8196, queue = 11749, heur = -7.0, depth = 7
iter = 8197, queue = 11749, heur = -7.0, depth = 7
iter = 8198, queue = 11750, heur = -7.0, depth = 7
iter = 8199, queue = 11750, heur = -7.0, depth = 7
iter = 8200, queue = 11749, heur = -7.0, depth = 7
iter = 8201, queue = 11749, heur = -7.0, depth = 7
iter = 8202, queue = 11748, heur = -7.0, depth = 7
iter = 8203, queue = 11749, heur = -7.0, depth = 7
```

```
iter = 8204, queue = 11750, heur = -7.0, depth = 7
iter = 8205, queue = 11749, heur = -7.0, depth = 7
iter = 8206, queue = 11750, heur = -7.0, depth = 7
iter = 8207, queue = 11751, heur = -7.0, depth = 7
iter = 8208, queue = 11751, heur = -7.0, depth = 7
iter = 8209, queue = 11753, heur = -7.0, depth = 7
iter = 8210, queue = 11753, heur = -7.0, depth = 7
iter = 8211, queue = 11753, heur = -7.0, depth = 7
iter = 8212, queue = 11752, heur = -7.0, depth = 7
iter = 8213, queue = 11752, heur = -7.0, depth = 7
iter = 8214, queue = 11753, heur = -7.0, depth = 7
iter = 8215, queue = 11754, heur = -7.0, depth = 7
iter = 8216, queue = 11757, heur = -7.0, depth = 8
iter = 8217, queue = 11758, heur = -7.0, depth = 7
iter = 8218, queue = 11759, heur = -7.0, depth = 7
iter = 8219, queue = 11758, heur = -7.0, depth = 7
iter = 8220, queue = 11761, heur = -7.0, depth = 7
iter = 8221, queue = 11760, heur = -7.0, depth = 7
iter = 8222, queue = 11763, heur = -7.0, depth = 7
iter = 8223, queue = 11762, heur = -7.0, depth = 7
iter = 8224, queue = 11763, heur = -7.0, depth = 7
iter = 8225, queue = 11766, heur = -7.0, depth = 7
iter = 8226, queue = 11765, heur = -7.0, depth = 7
iter = 8227, queue = 11764, heur = -7.0, depth = 7
iter = 8228, queue = 11765, heur = -7.0, depth = 7
iter = 8229, queue = 11766, heur = -7.0, depth = 7
iter = 8230, queue = 11766, heur = -7.0, depth = 7
iter = 8231, queue = 11769, heur = -7.0, depth = 7
iter = 8232, queue = 11768, heur = -7.0, depth = 9
iter = 8233, queue = 11768, heur = -7.0, depth = 10
iter = 8234, queue = 11769, heur = -7.0, depth = 7
iter = 8235, queue = 11769, heur = -7.0, depth = 7
iter = 8236, queue = 11770, heur = -7.0, depth = 7
iter = 8237, queue = 11771, heur = -7.0, depth = 7
iter = 8238, queue = 11772, heur = -7.0, depth = 7
iter = 8239, queue = 11773, heur = -7.0, depth = 7
iter = 8240, queue = 11776, heur = -7.0, depth = 7
iter = 8241, queue = 11777, heur = -7.0, depth = 7
iter = 8242, queue = 11778, heur = -7.0, depth = 7
iter = 8243, queue = 11781, heur = -7.0, depth = 8
iter = 8244, queue = 11782, heur = -7.0, depth = 7
iter = 8245, queue = 11781, heur = -7.0, depth = 7
iter = 8246, queue = 11782, heur = -7.0, depth = 7
iter = 8247, queue = 11785, heur = -7.0, depth = 7
iter = 8248, queue = 11786, heur = -7.0, depth = 7
iter = 8249, queue = 11788, heur = -7.0, depth = 7
iter = 8250, queue = 11789, heur = -7.0, depth = 7
iter = 8251, queue = 11789, heur = -7.0, depth = 7
iter = 8252, queue = 11791, heur = -7.0, depth = 7
iter = 8253, queue = 11792, heur = -7.0, depth = 7
iter = 8254, queue = 11793, heur = -7.0, depth = 7
iter = 8255, queue = 11796, heur = -7.0, depth = 7
iter = 8256, queue = 11797, heur = -7.0, depth = 7
iter = 8257, queue = 11798, heur = -7.0, depth = 7
iter = 8258, queue = 11799, heur = -7.0, depth = 7
iter = 8259, queue = 11799, heur = -7.0, depth = 7
iter = 8260, queue = 11800, heur = -7.0, depth = 7
iter = 8261, queue = 11801, heur = -7.0, depth = 7
iter = 8262, queue = 11802, heur = -7.0, depth = 7
```

```
iter = 8263, queue = 11802, heur = -7.0, depth = 8
iter = 8264, queue = 11803, heur = -7.0, depth = 7
iter = 8265, queue = 11804, heur = -7.0, depth = 7
iter = 8266, queue = 11805, heur = -7.0, depth = 7
iter = 8267, queue = 11805, heur = -7.0, depth = 8
iter = 8268, queue = 11806, heur = -7.0, depth = 7
iter = 8269, queue = 11806, heur = -7.0, depth = 7
iter = 8270, queue = 11807, heur = -7.0, depth = 9
iter = 8271, queue = 11807, heur = -7.0, depth = 7
iter = 8272, queue = 11808, heur = -7.0, depth = 7
iter = 8273, queue = 11809, heur = -7.0, depth = 7
iter = 8274, queue = 11810, heur = -7.0, depth = 7
iter = 8275, queue = 11811, heur = -7.0, depth = 7
iter = 8276, queue = 11813, heur = -7.0, depth = 7
iter = 8277, queue = 11814, heur = -7.0, depth = 7
iter = 8278, queue = 11815, heur = -7.0, depth = 7
iter = 8279, queue = 11816, heur = -7.0, depth = 7
iter = 8280, queue = 11818, heur = -7.0, depth = 7
iter = 8281, queue = 11819, heur = -7.0, depth = 7
iter = 8282, queue = 11820, heur = -7.0, depth = 7
iter = 8283, queue = 11821, heur = -7.0, depth = 7
iter = 8284, queue = 11822, heur = -7.0, depth = 7
iter = 8285, queue = 11825, heur = -7.0, depth = 7
iter = 8286, queue = 11826, heur = -7.0, depth = 7
iter = 8287, queue = 11826, heur = -7.0, depth = 7
iter = 8288, queue = 11827, heur = -7.0, depth = 7
iter = 8289, queue = 11828, heur = -7.0, depth = 7
iter = 8290, queue = 11829, heur = -7.0, depth = 7
iter = 8291, queue = 11832, heur = -7.0, depth = 8
iter = 8292, queue = 11833, heur = -7.0, depth = 7
iter = 8293, queue = 11834, heur = -7.0, depth = 7
iter = 8294, queue = 11835, heur = -7.0, depth = 7
iter = 8295, queue = 11836, heur = -7.0, depth = 7
iter = 8296, queue = 11835, heur = -7.0, depth = 7
iter = 8297, queue = 11836, heur = -7.0, depth = 7
iter = 8298, queue = 11839, heur = -7.0, depth = 7
iter = 8299, queue = 11840, heur = -7.0, depth = 7
iter = 8300, queue = 11841, heur = -7.0, depth = 7
iter = 8301, queue = 11843, heur = -7.0, depth = 7
iter = 8302, queue = 11843, heur = -7.0, depth = 7
iter = 8303, queue = 11843, heur = -7.0, depth = 7
iter = 8304, queue = 11844, heur = -7.0, depth = 7
iter = 8305, queue = 11845, heur = -7.0, depth = 7
iter = 8306, queue = 11848, heur = -7.0, depth = 7
iter = 8307, queue = 11849, heur = -7.0, depth = 7
iter = 8308, queue = 11850, heur = -7.0, depth = 7
iter = 8309, queue = 11849, heur = -7.0, depth = 7
iter = 8310, queue = 11852, heur = -7.0, depth = 7
iter = 8311, queue = 11855, heur = -7.0, depth = 7
iter = 8312, queue = 11858, heur = -7.0, depth = 7
iter = 8313, queue = 11859, heur = -7.0, depth = 7
iter = 8314, queue = 11858, heur = -7.0, depth = 7
iter = 8315, queue = 11858, heur = -7.0, depth = 7
iter = 8316, queue = 11858, heur = -7.0, depth = 7
iter = 8317, queue = 11859, heur = -7.0, depth = 7
iter = 8318, queue = 11862, heur = -7.0, depth = 7
iter = 8319, queue = 11864, heur = -7.0, depth = 7
iter = 8320, queue = 11866, heur = -7.0, depth = 7
iter = 8321, queue = 11867, heur = -7.0, depth = 7
```

```
iter = 8322, queue = 11870, heur = -7.0, depth = 7
iter = 8323, queue = 11871, heur = -7.0, depth = 7
iter = 8324, queue = 11871, heur = -7.0, depth = 7
iter = 8325, queue = 11870, heur = -7.0, depth = 7
iter = 8326, queue = 11873, heur = -7.0, depth = 7
iter = 8327, queue = 11874, heur = -7.0, depth = 7
iter = 8328, queue = 11875, heur = -7.0, depth = 7
iter = 8329, queue = 11874, heur = -7.0, depth = 7
iter = 8330, queue = 11875, heur = -7.0, depth = 7
iter = 8331, queue = 11874, heur = -7.0, depth = 7
iter = 8332, queue = 11873, heur = -7.0, depth = 7
iter = 8333, queue = 11874, heur = -7.0, depth = 7
iter = 8334, queue = 11876, heur = -7.0, depth = 7
iter = 8335, queue = 11877, heur = -7.0, depth = 7
iter = 8336, queue = 11878, heur = -7.0, depth = 7
iter = 8337, queue = 11879, heur = -7.0, depth = 7
iter = 8338, queue = 11880, heur = -7.0, depth = 7
iter = 8339, queue = 11880, heur = -7.0, depth = 7
iter = 8340, queue = 11881, heur = -7.0, depth = 7
iter = 8341, queue = 11884, heur = -7.0, depth = 7
iter = 8342, queue = 11885, heur = -7.0, depth = 7
iter = 8343, queue = 11885, heur = -7.0, depth = 7
iter = 8344, queue = 11885, heur = -7.0, depth = 7
iter = 8345, queue = 11884, heur = -7.0, depth = 7
iter = 8346, queue = 11886, heur = -7.0, depth = 7
iter = 8347, queue = 11887, heur = -7.0, depth = 7
iter = 8348, queue = 11888, heur = -7.0, depth = 7
iter = 8349, queue = 11889, heur = -7.0, depth = 7
iter = 8350, queue = 11889, heur = -7.0, depth = 7
iter = 8351, queue = 11890, heur = -7.0, depth = 7
iter = 8352, queue = 11891, heur = -7.0, depth = 8
iter = 8353, queue = 11890, heur = -7.0, depth = 7
iter = 8354, queue = 11891, heur = -7.0, depth = 7
iter = 8355, queue = 11890, heur = -7.0, depth = 7
iter = 8356, queue = 11893, heur = -7.0, depth = 7
iter = 8357, queue = 11893, heur = -7.0, depth = 7
iter = 8358, queue = 11894, heur = -7.0, depth = 7
iter = 8359, queue = 11897, heur = -7.0, depth = 7
iter = 8360, queue = 11897, heur = -7.0, depth = 7
iter = 8361, queue = 11897, heur = -7.0, depth = 7
iter = 8362, queue = 11898, heur = -7.0, depth = 7
iter = 8363, queue = 11901, heur = -7.0, depth = 7
iter = 8364, queue = 11902, heur = -7.0, depth = 7
iter = 8365, queue = 11903, heur = -7.0, depth = 9
iter = 8366, queue = 11903, heur = -7.0, depth = 9
iter = 8367, queue = 11904, heur = -7.0, depth = 7
iter = 8368, queue = 11904, heur = -7.0, depth = 7
iter = 8369, queue = 11907, heur = -7.0, depth = 7
iter = 8370, queue = 11906, heur = -7.0, depth = 7
iter = 8371, queue = 11905, heur = -7.0, depth = 7
iter = 8372, queue = 11906, heur = -7.0, depth = 7
iter = 8373, queue = 11907, heur = -7.0, depth = 7
iter = 8374, queue = 11909, heur = -7.0, depth = 7
iter = 8375, queue = 11910, heur = -7.0, depth = 7
iter = 8376, queue = 11913, heur = -7.0, depth = 7
iter = 8377, queue = 11914, heur = -7.0, depth = 7
iter = 8378, queue = 11915, heur = -7.0, depth = 7
iter = 8379, queue = 11914, heur = -7.0, depth = 7
iter = 8380, queue = 11915, heur = -7.0, depth = 7
```

```
iter = 8381, queue = 11916, heur = -7.0, depth = 7
iter = 8382, queue = 11917, heur = -7.0, depth = 9
iter = 8383, queue = 11918, heur = -7.0, depth = 7
iter = 8384, queue = 11921, heur = -7.0, depth = 7
iter = 8385, queue = 11922, heur = -7.0, depth = 7
iter = 8386, queue = 11922, heur = -7.0, depth = 7
iter = 8387, queue = 11923, heur = -7.0, depth = 7
iter = 8388, queue = 11922, heur = -7.0, depth = 7
iter = 8389, queue = 11923, heur = -7.0, depth = 7
iter = 8390, queue = 11924, heur = -7.0, depth = 7
iter = 8391, queue = 11925, heur = -7.0, depth = 7
iter = 8392, queue = 11926, heur = -7.0, depth = 7
iter = 8393, queue = 11926, heur = -7.0, depth = 7
iter = 8394, queue = 11927, heur = -7.0, depth = 7
iter = 8395, queue = 11928, heur = -7.0, depth = 7
iter = 8396, queue = 11930, heur = -7.0, depth = 7
iter = 8397, queue = 11932, heur = -7.0, depth = 7
iter = 8398, queue = 11933, heur = -7.0, depth = 7
iter = 8399, queue = 11934, heur = -7.0, depth = 7
iter = 8400, queue = 11935, heur = -7.0, depth = 7
iter = 8401, queue = 11937, heur = -7.0, depth = 7
iter = 8402, queue = 11938, heur = -7.0, depth = 7
iter = 8403, queue = 11938, heur = -7.0, depth = 7
iter = 8404, queue = 11939, heur = -7.0, depth = 7
iter = 8405, queue = 11940, heur = -7.0, depth = 7
iter = 8406, queue = 11941, heur = -7.0, depth = 7
iter = 8407, queue = 11942, heur = -7.0, depth = 7
iter = 8408, queue = 11944, heur = -7.0, depth = 7
iter = 8409, queue = 11945, heur = -7.0, depth = 8
iter = 8410, queue = 11946, heur = -7.0, depth = 7
iter = 8411, queue = 11947, heur = -7.0, depth = 7
iter = 8412, queue = 11948, heur = -7.0, depth = 13
iter = 8413, queue = 11949, heur = -7.0, depth = 7
iter = 8414, queue = 11949, heur = -7.0, depth = 7
iter = 8415, queue = 11950, heur = -7.0, depth = 7
iter = 8416, queue = 11951, heur = -7.0, depth = 7
iter = 8417, queue = 11954, heur = -7.0, depth = 7
iter = 8418, queue = 11955, heur = -7.0, depth = 7
iter = 8419, queue = 11956, heur = -7.0, depth = 7
iter = 8420, queue = 11959, heur = -7.0, depth = 7
iter = 8421, queue = 11960, heur = -7.0, depth = 7
iter = 8422, queue = 11961, heur = -7.0, depth = 7
iter = 8423, queue = 11963, heur = -7.0, depth = 7
iter = 8424, queue = 11964, heur = -7.0, depth = 7
iter = 8425, queue = 11965, heur = -7.0, depth = 7
iter = 8426, queue = 11966, heur = -7.0, depth = 7
iter = 8427, queue = 11969, heur = -7.0, depth = 7
iter = 8428, queue = 11970, heur = -7.0, depth = 7
iter = 8429, queue = 11971, heur = -7.0, depth = 7
iter = 8430, queue = 11972, heur = -7.0, depth = 7
iter = 8431, queue = 11971, heur = -7.0, depth = 7
iter = 8432, queue = 11970, heur = -7.0, depth = 7
iter = 8433, queue = 11969, heur = -7.0, depth = 7
iter = 8434, queue = 11969, heur = -7.0, depth = 7
iter = 8435, queue = 11969, heur = -7.0, depth = 7
iter = 8436, queue = 11969, heur = -7.0, depth = 7
iter = 8437, queue = 11970, heur = -7.0, depth = 7
iter = 8438, queue = 11971, heur = -7.0, depth = 7
iter = 8439, queue = 11970, heur = -7.0, depth = 7
```

```
iter = 8440, queue = 11970, heur = -7.0, depth = 7
iter = 8441, queue = 11970, heur = -7.0, depth = 7
iter = 8442, queue = 11970, heur = -7.0, depth = 7
iter = 8443, queue = 11971, heur = -7.0, depth = 7
iter = 8444, queue = 11972, heur = -7.0, depth = 7
iter = 8445, queue = 11973, heur = -7.0, depth = 7
iter = 8446, queue = 11974, heur = -7.0, depth = 7
iter = 8447, queue = 11977, heur = -7.0, depth = 7
iter = 8448, queue = 11978, heur = -7.0, depth = 7
iter = 8449, queue = 11977, heur = -7.0, depth = 7
iter = 8450, queue = 11977, heur = -7.0, depth = 7
iter = 8451, queue = 11978, heur = -7.0, depth = 7
iter = 8452, queue = 11980, heur = -7.0, depth = 7
iter = 8453, queue = 11981, heur = -7.0, depth = 7
iter = 8454, queue = 11983, heur = -7.0, depth = 7
iter = 8455, queue = 11986, heur = -7.0, depth = 7
iter = 8456, queue = 11987, heur = -7.0, depth = 7
iter = 8457, queue = 11990, heur = -7.0, depth = 7
iter = 8458, queue = 11990, heur = -7.0, depth = 7
iter = 8459, queue = 11991, heur = -7.0, depth = 7
iter = 8460, queue = 11993, heur = -7.0, depth = 7
iter = 8461, queue = 11994, heur = -7.0, depth = 7
iter = 8462, queue = 11993, heur = -7.0, depth = 7
iter = 8463, queue = 11996, heur = -7.0, depth = 7
iter = 8464, queue = 11999, heur = -7.0, depth = 7
iter = 8465, queue = 12000, heur = -7.0, depth = 7
iter = 8466, queue = 12001, heur = -7.0, depth = 7
iter = 8467, queue = 12004, heur = -7.0, depth = 7
iter = 8468, queue = 12003, heur = -7.0, depth = 7
iter = 8469, queue = 12004, heur = -7.0, depth = 7
iter = 8470, queue = 12007, heur = -7.0, depth = 7
iter = 8471, queue = 12009, heur = -7.0, depth = 7
iter = 8472, queue = 12008, heur = -7.0, depth = 7
iter = 8473, queue = 12009, heur = -7.0, depth = 7
iter = 8474, queue = 12010, heur = -7.0, depth = 7
iter = 8475, queue = 12011, heur = -7.0, depth = 7
iter = 8476, queue = 12011, heur = -7.0, depth = 7
iter = 8477, queue = 12012, heur = -7.0, depth = 8
iter = 8478, queue = 12013, heur = -7.0, depth = 7
iter = 8479, queue = 12012, heur = -7.0, depth = 8
iter = 8480, queue = 12013, heur = -7.0, depth = 7
iter = 8481, queue = 12014, heur = -7.0, depth = 7
iter = 8482, queue = 12017, heur = -7.0, depth = 9
iter = 8483, queue = 12018, heur = -7.0, depth = 7
iter = 8484, queue = 12017, heur = -7.0, depth = 7
iter = 8485, queue = 12018, heur = -7.0, depth = 7
iter = 8486, queue = 12019, heur = -7.0, depth = 7
iter = 8487, queue = 12020, heur = -7.0, depth = 7
iter = 8488, queue = 12021, heur = -7.0, depth = 7
iter = 8489, queue = 12024, heur = -7.0, depth = 7
iter = 8490, queue = 12025, heur = -7.0, depth = 7
iter = 8491, queue = 12026, heur = -7.0, depth = 7
iter = 8492, queue = 12027, heur = -7.0, depth = 7
iter = 8493, queue = 12028, heur = -7.0, depth = 7
iter = 8494, queue = 12029, heur = -7.0, depth = 7
iter = 8495, queue = 12028, heur = -7.0, depth = 7
iter = 8496, queue = 12029, heur = -7.0, depth = 7
iter = 8497, queue = 12030, heur = -7.0, depth = 7
iter = 8498, queue = 12032, heur = -7.0, depth = 7
```

```
iter = 8499, queue = 12033, heur = -7.0, depth = 7
iter = 8500, queue = 12034, heur = -7.0, depth = 7
iter = 8501, queue = 12036, heur = -7.0, depth = 8
iter = 8502, queue = 12037, heur = -7.0, depth = 7
iter = 8503, queue = 12038, heur = -7.0, depth = 7
iter = 8504, queue = 12039, heur = -7.0, depth = 9
iter = 8505, queue = 12040, heur = -7.0, depth = 7
iter = 8506, queue = 12041, heur = -7.0, depth = 7
iter = 8507, queue = 12040, heur = -7.0, depth = 7
iter = 8508, queue = 12041, heur = -7.0, depth = 7
iter = 8509, queue = 12042, heur = -7.0, depth = 7
iter = 8510, queue = 12043, heur = -7.0, depth = 7
iter = 8511, queue = 12044, heur = -7.0, depth = 7
iter = 8512, queue = 12043, heur = -7.0, depth = 7
iter = 8513, queue = 12044, heur = -7.0, depth = 7
iter = 8514, queue = 12045, heur = -7.0, depth = 7
iter = 8515, queue = 12045, heur = -7.0, depth = 7
iter = 8516, queue = 12045, heur = -7.0, depth = 7
iter = 8517, queue = 12046, heur = -7.0, depth = 7
iter = 8518, queue = 12047, heur = -7.0, depth = 7
iter = 8519, queue = 12046, heur = -7.0, depth = 7
iter = 8520, queue = 12046, heur = -7.0, depth = 7
iter = 8521, queue = 12047, heur = -7.0, depth = 7
iter = 8522, queue = 12049, heur = -7.0, depth = 7
iter = 8523, queue = 12052, heur = -7.0, depth = 7
iter = 8524, queue = 12053, heur = -7.0, depth = 7
iter = 8525, queue = 12052, heur = -7.0, depth = 7
iter = 8526, queue = 12053, heur = -7.0, depth = 7
iter = 8527, queue = 12053, heur = -7.0, depth = 7
iter = 8528, queue = 12056, heur = -7.0, depth = 7
iter = 8529, queue = 12056, heur = -7.0, depth = 7
iter = 8530, queue = 12059, heur = -7.0, depth = 7
iter = 8531, queue = 12060, heur = -7.0, depth = 9
iter = 8532, queue = 12060, heur = -7.0, depth = 7
iter = 8533, queue = 12061, heur = -7.0, depth = 7
iter = 8534, queue = 12060, heur = -7.0, depth = 7
iter = 8535, queue = 12063, heur = -7.0, depth = 7
iter = 8536, queue = 12064, heur = -7.0, depth = 7
iter = 8537, queue = 12065, heur = -7.0, depth = 7
iter = 8538, queue = 12065, heur = -7.0, depth = 7
iter = 8539, queue = 12067, heur = -7.0, depth = 7
iter = 8540, queue = 12067, heur = -7.0, depth = 7
iter = 8541, queue = 12067, heur = -7.0, depth = 7
iter = 8542, queue = 12068, heur = -7.0, depth = 7
iter = 8543, queue = 12069, heur = -7.0, depth = 7
iter = 8544, queue = 12069, heur = -7.0, depth = 7
iter = 8545, queue = 12071, heur = -7.0, depth = 8
iter = 8546, queue = 12072, heur = -7.0, depth = 7
iter = 8547, queue = 12074, heur = -7.0, depth = 7
iter = 8548, queue = 12075, heur = -7.0, depth = 7
iter = 8549, queue = 12078, heur = -7.0, depth = 7
iter = 8550, queue = 12079, heur = -7.0, depth = 7
iter = 8551, queue = 12080, heur = -7.0, depth = 7
iter = 8552, queue = 12081, heur = -7.0, depth = 7
iter = 8553, queue = 12083, heur = -7.0, depth = 7
iter = 8554, queue = 12084, heur = -7.0, depth = 7
iter = 8555, queue = 12085, heur = -7.0, depth = 7
iter = 8556, queue = 12085, heur = -7.0, depth = 7
iter = 8557, queue = 12086, heur = -7.0, depth = 7
```

```
iter = 8558, queue = 12087, heur = -7.0, depth = 7
iter = 8559, queue = 12090, heur = -7.0, depth = 7
iter = 8560, queue = 12090, heur = -7.0, depth = 7
iter = 8561, queue = 12092, heur = -7.0, depth = 7
iter = 8562, queue = 12092, heur = -7.0, depth = 7
iter = 8563, queue = 12093, heur = -7.0, depth = 7
iter = 8564, queue = 12094, heur = -7.0, depth = 7
iter = 8565, queue = 12096, heur = -7.0, depth = 7
iter = 8566, queue = 12097, heur = -7.0, depth = 7
iter = 8567, queue = 12098, heur = -7.0, depth = 7
iter = 8568, queue = 12101, heur = -7.0, depth = 7
iter = 8569, queue = 12102, heur = -7.0, depth = 7
iter = 8570, queue = 12103, heur = -7.0, depth = 7
iter = 8571, queue = 12103, heur = -7.0, depth = 7
iter = 8572, queue = 12105, heur = -7.0, depth = 7
iter = 8573, queue = 12108, heur = -7.0, depth = 7
iter = 8574, queue = 12109, heur = -7.0, depth = 7
iter = 8575, queue = 12109, heur = -7.0, depth = 7
iter = 8576, queue = 12109, heur = -7.0, depth = 7
iter = 8577, queue = 12110, heur = -7.0, depth = 7
iter = 8578, queue = 12111, heur = -7.0, depth = 7
iter = 8579, queue = 12113, heur = -7.0, depth = 7
iter = 8580, queue = 12113, heur = -7.0, depth = 7
iter = 8581, queue = 12113, heur = -7.0, depth = 7
iter = 8582, queue = 12114, heur = -7.0, depth = 7
iter = 8583, queue = 12115, heur = -7.0, depth = 7
iter = 8584, queue = 12117, heur = -7.0, depth = 7
iter = 8585, queue = 12117, heur = -7.0, depth = 7
iter = 8586, queue = 12118, heur = -7.0, depth = 7
iter = 8587, queue = 12119, heur = -7.0, depth = 7
iter = 8588, queue = 12121, heur = -7.0, depth = 7
iter = 8589, queue = 12123, heur = -7.0, depth = 7
iter = 8590, queue = 12125, heur = -7.0, depth = 7
iter = 8591, queue = 12126, heur = -7.0, depth = 7
iter = 8592, queue = 12125, heur = -7.0, depth = 7
iter = 8593, queue = 12126, heur = -7.0, depth = 7
iter = 8594, queue = 12128, heur = -7.0, depth = 8
iter = 8595, queue = 12128, heur = -7.0, depth = 7
iter = 8596, queue = 12131, heur = -7.0, depth = 7
iter = 8597, queue = 12130, heur = -7.0, depth = 7
iter = 8598, queue = 12131, heur = -7.0, depth = 7
iter = 8599, queue = 12130, heur = -7.0, depth = 7
iter = 8600, queue = 12130, heur = -7.0, depth = 7
iter = 8601, queue = 12131, heur = -7.0, depth = 7
iter = 8602, queue = 12131, heur = -7.0, depth = 7
iter = 8603, queue = 12134, heur = -7.0, depth = 8
iter = 8604, queue = 12135, heur = -7.0, depth = 7
iter = 8605, queue = 12136, heur = -7.0, depth = 7
iter = 8606, queue = 12137, heur = -7.0, depth = 7
iter = 8607, queue = 12138, heur = -7.0, depth = 7
iter = 8608, queue = 12141, heur = -7.0, depth = 7
iter = 8609, queue = 12144, heur = -7.0, depth = 7
iter = 8610, queue = 12145, heur = -7.0, depth = 7
iter = 8611, queue = 12146, heur = -7.0, depth = 7
iter = 8612, queue = 12145, heur = -7.0, depth = 7
iter = 8613, queue = 12148, heur = -7.0, depth = 7
iter = 8614, queue = 12151, heur = -7.0, depth = 7
iter = 8615, queue = 12150, heur = -7.0, depth = 7
iter = 8616, queue = 12153, heur = -7.0, depth = 7
```

```
iter = 8617, queue = 12156, heur = -7.0, depth = 7
iter = 8618, queue = 12157, heur = -7.0, depth = 9
iter = 8619, queue = 12157, heur = -7.0, depth = 7
iter = 8620, queue = 12158, heur = -7.0, depth = 7
iter = 8621, queue = 12158, heur = -7.0, depth = 7
iter = 8622, queue = 12159, heur = -7.0, depth = 7
iter = 8623, queue = 12160, heur = -7.0, depth = 7
iter = 8624, queue = 12163, heur = -7.0, depth = 7
iter = 8625, queue = 12164, heur = -7.0, depth = 7
iter = 8626, queue = 12165, heur = -7.0, depth = 8
iter = 8627, queue = 12165, heur = -7.0, depth = 7
iter = 8628, queue = 12165, heur = -7.0, depth = 7
iter = 8629, queue = 12166, heur = -7.0, depth = 7
iter = 8630, queue = 12168, heur = -7.0, depth = 7
iter = 8631, queue = 12167, heur = -7.0, depth = 8
iter = 8632, queue = 12168, heur = -7.0, depth = 7
iter = 8633, queue = 12167, heur = -7.0, depth = 7
iter = 8634, queue = 12168, heur = -7.0, depth = 9
iter = 8635, queue = 12169, heur = -7.0, depth = 7
iter = 8636, queue = 12172, heur = -7.0, depth = 7
iter = 8637, queue = 12173, heur = -7.0, depth = 10
iter = 8638, queue = 12174, heur = -7.0, depth = 7
iter = 8639, queue = 12173, heur = -7.0, depth = 7
iter = 8640, queue = 12174, heur = -7.0, depth = 7
iter = 8641, queue = 12173, heur = -7.0, depth = 7
iter = 8642, queue = 12176, heur = -7.0, depth = 7
iter = 8643, queue = 12176, heur = -7.0, depth = 7
iter = 8644, queue = 12177, heur = -7.0, depth = 7
iter = 8645, queue = 12180, heur = -7.0, depth = 7
iter = 8646, queue = 12181, heur = -7.0, depth = 7
iter = 8647, queue = 12184, heur = -7.0, depth = 7
iter = 8648, queue = 12184, heur = -7.0, depth = 7
iter = 8649, queue = 12187, heur = -7.0, depth = 8
iter = 8650, queue = 12187, heur = -7.0, depth = 7
iter = 8651, queue = 12190, heur = -7.0, depth = 7
iter = 8652, queue = 12191, heur = -7.0, depth = 7
iter = 8653, queue = 12191, heur = -7.0, depth = 7
iter = 8654, queue = 12193, heur = -7.0, depth = 7
iter = 8655, queue = 12195, heur = -7.0, depth = 7
iter = 8656, queue = 12196, heur = -7.0, depth = 7
iter = 8657, queue = 12198, heur = -7.0, depth = 7
iter = 8658, queue = 12201, heur = -7.0, depth = 8
iter = 8659, queue = 12202, heur = -7.0, depth = 7
iter = 8660, queue = 12205, heur = -7.0, depth = 7
iter = 8661, queue = 12205, heur = -7.0, depth = 7
iter = 8662, queue = 12207, heur = -7.0, depth = 7
iter = 8663, queue = 12210, heur = -7.0, depth = 7
iter = 8664, queue = 12211, heur = -7.0, depth = 7
iter = 8665, queue = 12214, heur = -7.0, depth = 7
iter = 8666, queue = 12216, heur = -7.0, depth = 7
iter = 8667, queue = 12219, heur = -7.0, depth = 7
iter = 8668, queue = 12220, heur = -7.0, depth = 7
iter = 8669, queue = 12221, heur = -7.0, depth = 7
iter = 8670, queue = 12222, heur = -7.0, depth = 7
iter = 8671, queue = 12224, heur = -7.0, depth = 7
iter = 8672, queue = 12227, heur = -7.0, depth = 7
iter = 8673, queue = 12230, heur = -7.0, depth = 7
iter = 8674, queue = 12231, heur = -7.0, depth = 7
iter = 8675, queue = 12231, heur = -7.0, depth = 7
```

```
iter = 8676, queue = 12231, heur = -7.0, depth = 7
iter = 8677, queue = 12234, heur = -7.0, depth = 7
iter = 8678, queue = 12237, heur = -7.0, depth = 7
iter = 8679, queue = 12236, heur = -7.0, depth = 7
iter = 8680, queue = 12238, heur = -7.0, depth = 7
iter = 8681, queue = 12239, heur = -7.0, depth = 7
iter = 8682, queue = 12240, heur = -7.0, depth = 7
iter = 8683, queue = 12240, heur = -7.0, depth = 7
iter = 8684, queue = 12241, heur = -7.0, depth = 7
iter = 8685, queue = 12242, heur = -7.0, depth = 7
iter = 8686, queue = 12243, heur = -7.0, depth = 7
iter = 8687, queue = 12242, heur = -7.0, depth = 7
iter = 8688, queue = 12243, heur = -7.0, depth = 7
iter = 8689, queue = 12245, heur = -7.0, depth = 7
iter = 8690, queue = 12246, heur = -7.0, depth = 7
iter = 8691, queue = 12249, heur = -7.0, depth = 7
iter = 8692, queue = 12250, heur = -7.0, depth = 7
iter = 8693, queue = 12251, heur = -7.0, depth = 7
iter = 8694, queue = 12252, heur = -7.0, depth = 7
iter = 8695, queue = 12251, heur = -7.0, depth = 7
iter = 8696, queue = 12253, heur = -7.0, depth = 7
iter = 8697, queue = 12254, heur = -7.0, depth = 7
iter = 8698, queue = 12255, heur = -7.0, depth = 7
iter = 8699, queue = 12258, heur = -7.0, depth = 7
iter = 8700, queue = 12257, heur = -7.0, depth = 7
iter = 8701, queue = 12258, heur = -7.0, depth = 7
iter = 8702, queue = 12259, heur = -7.0, depth = 7
iter = 8703, queue = 12260, heur = -7.0, depth = 7
iter = 8704, queue = 12262, heur = -7.0, depth = 7
iter = 8705, queue = 12263, heur = -7.0, depth = 7
iter = 8706, queue = 12264, heur = -7.0, depth = 7
iter = 8707, queue = 12264, heur = -7.0, depth = 7
iter = 8708, queue = 12265, heur = -7.0, depth = 7
iter = 8709, queue = 12265, heur = -7.0, depth = 7
iter = 8710, queue = 12264, heur = -7.0, depth = 7
iter = 8711, queue = 12267, heur = -7.0, depth = 7
iter = 8712, queue = 12268, heur = -7.0, depth = 7
iter = 8713, queue = 12271, heur = -7.0, depth = 7
iter = 8714, queue = 12274, heur = -7.0, depth = 7
iter = 8715, queue = 12273, heur = -7.0, depth = 7
iter = 8716, queue = 12276, heur = -7.0, depth = 7
iter = 8717, queue = 12277, heur = -7.0, depth = 7
iter = 8718, queue = 12276, heur = -7.0, depth = 7
iter = 8719, queue = 12277, heur = -7.0, depth = 7
iter = 8720, queue = 12278, heur = -7.0, depth = 7
iter = 8721, queue = 12279, heur = -7.0, depth = 7
iter = 8722, queue = 12280, heur = -7.0, depth = 7
iter = 8723, queue = 12280, heur = -7.0, depth = 7
iter = 8724, queue = 12281, heur = -7.0, depth = 7
iter = 8725, queue = 12280, heur = -7.0, depth = 7
iter = 8726, queue = 12283, heur = -7.0, depth = 7
iter = 8727, queue = 12284, heur = -7.0, depth = 7
iter = 8728, queue = 12285, heur = -7.0, depth = 7
iter = 8729, queue = 12285, heur = -7.0, depth = 7
iter = 8730, queue = 12288, heur = -7.0, depth = 7
iter = 8731, queue = 12291, heur = -7.0, depth = 7
iter = 8732, queue = 12293, heur = -7.0, depth = 7
iter = 8733, queue = 12295, heur = -7.0, depth = 7
iter = 8734, queue = 12298, heur = -7.0, depth = 7
```

```
iter = 8735, queue = 12297, heur = -7.0, depth = 7
iter = 8736, queue = 12298, heur = -7.0, depth = 7
iter = 8737, queue = 12301, heur = -7.0, depth = 7
iter = 8738, queue = 12300, heur = -7.0, depth = 7
iter = 8739, queue = 12301, heur = -7.0, depth = 7
iter = 8740, queue = 12302, heur = -7.0, depth = 7
iter = 8741, queue = 12303, heur = -7.0, depth = 7
iter = 8742, queue = 12306, heur = -7.0, depth = 7
iter = 8743, queue = 12307, heur = -7.0, depth = 7
iter = 8744, queue = 12308, heur = -7.0, depth = 7
iter = 8745, queue = 12307, heur = -7.0, depth = 7
iter = 8746, queue = 12308, heur = -7.0, depth = 7
iter = 8747, queue = 12309, heur = -7.0, depth = 7
iter = 8748, queue = 12310, heur = -7.0, depth = 7
iter = 8749, queue = 12312, heur = -7.0, depth = 7
iter = 8750, queue = 12314, heur = -7.0, depth = 7
iter = 8751, queue = 12317, heur = -7.0, depth = 7
iter = 8752, queue = 12316, heur = -7.0, depth = 7
iter = 8753, queue = 12317, heur = -7.0, depth = 7
iter = 8754, queue = 12318, heur = -7.0, depth = 7
iter = 8755, queue = 12319, heur = -7.0, depth = 7
iter = 8756, queue = 12320, heur = -7.0, depth = 7
iter = 8757, queue = 12321, heur = -7.0, depth = 7
iter = 8758, queue = 12321, heur = -7.0, depth = 7
iter = 8759, queue = 12321, heur = -7.0, depth = 7
iter = 8760, queue = 12322, heur = -7.0, depth = 7
iter = 8761, queue = 12321, heur = -7.0, depth = 7
iter = 8762, queue = 12322, heur = -7.0, depth = 7
iter = 8763, queue = 12321, heur = -7.0, depth = 7
iter = 8764, queue = 12322, heur = -7.0, depth = 7
iter = 8765, queue = 12322, heur = -7.0, depth = 7
iter = 8766, queue = 12321, heur = -7.0, depth = 8
iter = 8767, queue = 12321, heur = -7.0, depth = 7
iter = 8768, queue = 12322, heur = -7.0, depth = 7
iter = 8769, queue = 12325, heur = -7.0, depth = 7
iter = 8770, queue = 12325, heur = -7.0, depth = 7
iter = 8771, queue = 12328, heur = -7.0, depth = 7
iter = 8772, queue = 12328, heur = -7.0, depth = 7
iter = 8773, queue = 12329, heur = -7.0, depth = 7
iter = 8774, queue = 12330, heur = -7.0, depth = 7
iter = 8775, queue = 12330, heur = -7.0, depth = 7
iter = 8776, queue = 12332, heur = -7.0, depth = 7
iter = 8777, queue = 12333, heur = -7.0, depth = 7
iter = 8778, queue = 12336, heur = -7.0, depth = 7
iter = 8779, queue = 12337, heur = -7.0, depth = 7
iter = 8780, queue = 12338, heur = -7.0, depth = 7
iter = 8781, queue = 12339, heur = -7.0, depth = 7
iter = 8782, queue = 12340, heur = -7.0, depth = 7
iter = 8783, queue = 12341, heur = -7.0, depth = 7
iter = 8784, queue = 12340, heur = -7.0, depth = 7
iter = 8785, queue = 12339, heur = -7.0, depth = 7
iter = 8786, queue = 12342, heur = -7.0, depth = 7
iter = 8787, queue = 12343, heur = -7.0, depth = 7
iter = 8788, queue = 12344, heur = -7.0, depth = 7
iter = 8789, queue = 12347, heur = -7.0, depth = 7
iter = 8790, queue = 12348, heur = -7.0, depth = 7
iter = 8791, queue = 12348, heur = -7.0, depth = 7
iter = 8792, queue = 12351, heur = -7.0, depth = 7
iter = 8793, queue = 12350, heur = -7.0, depth = 7
```

```
iter = 8794, queue = 12349, heur = -7.0, depth = 7
iter = 8795, queue = 12350, heur = -7.0, depth = 7
iter = 8796, queue = 12352, heur = -7.0, depth = 7
iter = 8797, queue = 12355, heur = -7.0, depth = 7
iter = 8798, queue = 12356, heur = -7.0, depth = 7
iter = 8799, queue = 12355, heur = -7.0, depth = 7
iter = 8800, queue = 12354, heur = -7.0, depth = 7
iter = 8801, queue = 12355, heur = -7.0, depth = 7
iter = 8802, queue = 12357, heur = -7.0, depth = 7
iter = 8803, queue = 12357, heur = -7.0, depth = 7
iter = 8804, queue = 12358, heur = -7.0, depth = 7
iter = 8805, queue = 12359, heur = -7.0, depth = 7
iter = 8806, queue = 12359, heur = -7.0, depth = 7
iter = 8807, queue = 12361, heur = -7.0, depth = 7
iter = 8808, queue = 12361, heur = -7.0, depth = 7
iter = 8809, queue = 12362, heur = -7.0, depth = 7
iter = 8810, queue = 12362, heur = -7.0, depth = 7
iter = 8811, queue = 12363, heur = -7.0, depth = 7
iter = 8812, queue = 12364, heur = -7.0, depth = 7
iter = 8813, queue = 12365, heur = -7.0, depth = 7
iter = 8814, queue = 12366, heur = -7.0, depth = 7
iter = 8815, queue = 12366, heur = -7.0, depth = 7
iter = 8816, queue = 12367, heur = -7.0, depth = 7
iter = 8817, queue = 12367, heur = -7.0, depth = 7
iter = 8818, queue = 12368, heur = -7.0, depth = 7
iter = 8819, queue = 12369, heur = -7.0, depth = 7
iter = 8820, queue = 12368, heur = -7.0, depth = 7
iter = 8821, queue = 12370, heur = -7.0, depth = 7
iter = 8822, queue = 12371, heur = -7.0, depth = 7
iter = 8823, queue = 12371, heur = -7.0, depth = 7
iter = 8824, queue = 12373, heur = -7.0, depth = 7
iter = 8825, queue = 12374, heur = -7.0, depth = 7
iter = 8826, queue = 12375, heur = -7.0, depth = 7
iter = 8827, queue = 12377, heur = -7.0, depth = 7
iter = 8828, queue = 12376, heur = -7.0, depth = 7
iter = 8829, queue = 12376, heur = -7.0, depth = 7
iter = 8830, queue = 12376, heur = -7.0, depth = 7
iter = 8831, queue = 12378, heur = -7.0, depth = 7
iter = 8832, queue = 12377, heur = -7.0, depth = 7
iter = 8833, queue = 12378, heur = -7.0, depth = 7
iter = 8834, queue = 12378, heur = -7.0, depth = 7
iter = 8835, queue = 12381, heur = -7.0, depth = 7
iter = 8836, queue = 12380, heur = -7.0, depth = 7
iter = 8837, queue = 12381, heur = -7.0, depth = 7
iter = 8838, queue = 12381, heur = -7.0, depth = 7
iter = 8839, queue = 12382, heur = -7.0, depth = 7
iter = 8840, queue = 12383, heur = -7.0, depth = 7
iter = 8841, queue = 12384, heur = -7.0, depth = 7
iter = 8842, queue = 12387, heur = -7.0, depth = 7
iter = 8843, queue = 12388, heur = -7.0, depth = 7
iter = 8844, queue = 12388, heur = -7.0, depth = 7
iter = 8845, queue = 12388, heur = -7.0, depth = 7
iter = 8846, queue = 12389, heur = -7.0, depth = 7
iter = 8847, queue = 12389, heur = -7.0, depth = 7
iter = 8848, queue = 12388, heur = -7.0, depth = 9
iter = 8849, queue = 12388, heur = -7.0, depth = 7
iter = 8850, queue = 12389, heur = -7.0, depth = 7
iter = 8851, queue = 12392, heur = -7.0, depth = 7
iter = 8852, queue = 12391, heur = -7.0, depth = 7
```

```
iter = 8853, queue = 12393, heur = -7.0, depth = 7
iter = 8854, queue = 12396, heur = -7.0, depth = 7
iter = 8855, queue = 12398, heur = -7.0, depth = 7
iter = 8856, queue = 12401, heur = -7.0, depth = 7
iter = 8857, queue = 12402, heur = -7.0, depth = 7
iter = 8858, queue = 12405, heur = -7.0, depth = 7
iter = 8859, queue = 12406, heur = -7.0, depth = 7
iter = 8860, queue = 12407, heur = -7.0, depth = 7
iter = 8861, queue = 12410, heur = -7.0, depth = 7
iter = 8862, queue = 12410, heur = -7.0, depth = 7
iter = 8863, queue = 12413, heur = -7.0, depth = 7
iter = 8864, queue = 12413, heur = -7.0, depth = 7
iter = 8865, queue = 12416, heur = -7.0, depth = 7
iter = 8866, queue = 12417, heur = -7.0, depth = 7
iter = 8867, queue = 12419, heur = -7.0, depth = 7
iter = 8868, queue = 12418, heur = -7.0, depth = 7
iter = 8869, queue = 12421, heur = -7.0, depth = 7
iter = 8870, queue = 12421, heur = -7.0, depth = 7
iter = 8871, queue = 12420, heur = -7.0, depth = 7
iter = 8872, queue = 12421, heur = -7.0, depth = 7
iter = 8873, queue = 12423, heur = -7.0, depth = 7
iter = 8874, queue = 12424, heur = -7.0, depth = 7
iter = 8875, queue = 12424, heur = -7.0, depth = 7
iter = 8876, queue = 12423, heur = -7.0, depth = 7
iter = 8877, queue = 12426, heur = -7.0, depth = 7
iter = 8878, queue = 12427, heur = -7.0, depth = 7
iter = 8879, queue = 12429, heur = -7.0, depth = 8
iter = 8880, queue = 12430, heur = -7.0, depth = 7
iter = 8881, queue = 12431, heur = -7.0, depth = 7
iter = 8882, queue = 12432, heur = -7.0, depth = 8
iter = 8883, queue = 12432, heur = -7.0, depth = 7
iter = 8884, queue = 12433, heur = -7.0, depth = 7
iter = 8885, queue = 12434, heur = -7.0, depth = 7
iter = 8886, queue = 12436, heur = -7.0, depth = 7
iter = 8887, queue = 12437, heur = -7.0, depth = 7
iter = 8888, queue = 12438, heur = -7.0, depth = 7
iter = 8889, queue = 12441, heur = -7.0, depth = 7
iter = 8890, queue = 12444, heur = -7.0, depth = 7
iter = 8891, queue = 12446, heur = -7.0, depth = 7
iter = 8892, queue = 12449, heur = -7.0, depth = 7
iter = 8893, queue = 12450, heur = -7.0, depth = 7
iter = 8894, queue = 12452, heur = -7.0, depth = 7
iter = 8895, queue = 12453, heur = -7.0, depth = 7
iter = 8896, queue = 12455, heur = -7.0, depth = 7
iter = 8897, queue = 12457, heur = -7.0, depth = 7
iter = 8898, queue = 12458, heur = -7.0, depth = 7
iter = 8899, queue = 12457, heur = -7.0, depth = 7
iter = 8900, queue = 12456, heur = -7.0, depth = 7
iter = 8901, queue = 12457, heur = -7.0, depth = 7
iter = 8902, queue = 12459, heur = -7.0, depth = 7
iter = 8903, queue = 12458, heur = -7.0, depth = 7
iter = 8904, queue = 12457, heur = -7.0, depth = 7
iter = 8905, queue = 12459, heur = -7.0, depth = 7
iter = 8906, queue = 12459, heur = -7.0, depth = 7
iter = 8907, queue = 12462, heur = -7.0, depth = 7
iter = 8908, queue = 12463, heur = -7.0, depth = 7
iter = 8909, queue = 12463, heur = -7.0, depth = 7
iter = 8910, queue = 12465, heur = -7.0, depth = 8
iter = 8911, queue = 12468, heur = -7.0, depth = 7
```

```
iter = 8912, queue = 12467, heur = -7.0, depth = 7
iter = 8913, queue = 12467, heur = -7.0, depth = 7
iter = 8914, queue = 12468, heur = -7.0, depth = 7
iter = 8915, queue = 12470, heur = -7.0, depth = 7
iter = 8916, queue = 12471, heur = -7.0, depth = 7
iter = 8917, queue = 12472, heur = -7.0, depth = 7
iter = 8918, queue = 12474, heur = -7.0, depth = 7
iter = 8919, queue = 12475, heur = -7.0, depth = 7
iter = 8920, queue = 12475, heur = -7.0, depth = 7
iter = 8921, queue = 12478, heur = -7.0, depth = 7
iter = 8922, queue = 12479, heur = -7.0, depth = 7
iter = 8923, queue = 12482, heur = -7.0, depth = 7
iter = 8924, queue = 12485, heur = -7.0, depth = 7
iter = 8925, queue = 12488, heur = -7.0, depth = 7
iter = 8926, queue = 12490, heur = -7.0, depth = 7
iter = 8927, queue = 12492, heur = -7.0, depth = 7
iter = 8928, queue = 12491, heur = -7.0, depth = 7
iter = 8929, queue = 12494, heur = -7.0, depth = 7
iter = 8930, queue = 12497, heur = -7.0, depth = 7
iter = 8931, queue = 12498, heur = -7.0, depth = 7
iter = 8932, queue = 12499, heur = -7.0, depth = 7
iter = 8933, queue = 12500, heur = -7.0, depth = 7
iter = 8934, queue = 12503, heur = -7.0, depth = 7
iter = 8935, queue = 12504, heur = -7.0, depth = 7
iter = 8936, queue = 12503, heur = -7.0, depth = 7
iter = 8937, queue = 12503, heur = -7.0, depth = 7
iter = 8938, queue = 12506, heur = -7.0, depth = 7
iter = 8939, queue = 12507, heur = -7.0, depth = 7
iter = 8940, queue = 12510, heur = -7.0, depth = 7
iter = 8941, queue = 12509, heur = -7.0, depth = 7
iter = 8942, queue = 12510, heur = -7.0, depth = 7
iter = 8943, queue = 12511, heur = -7.0, depth = 7
iter = 8944, queue = 12510, heur = -7.0, depth = 7
iter = 8945, queue = 12511, heur = -7.0, depth = 7
iter = 8946, queue = 12512, heur = -7.0, depth = 7
iter = 8947, queue = 12515, heur = -7.0, depth = 7
iter = 8948, queue = 12516, heur = -7.0, depth = 8
iter = 8949, queue = 12516, heur = -7.0, depth = 7
iter = 8950, queue = 12517, heur = -7.0, depth = 7
iter = 8951, queue = 12519, heur = -7.0, depth = 7
iter = 8952, queue = 12518, heur = -7.0, depth = 7
iter = 8953, queue = 12521, heur = -7.0, depth = 7
iter = 8954, queue = 12520, heur = -7.0, depth = 7
iter = 8955, queue = 12523, heur = -7.0, depth = 7
iter = 8956, queue = 12526, heur = -7.0, depth = 7
iter = 8957, queue = 12528, heur = -7.0, depth = 7
iter = 8958, queue = 12529, heur = -7.0, depth = 7
iter = 8959, queue = 12528, heur = -7.0, depth = 7
iter = 8960, queue = 12530, heur = -7.0, depth = 7
iter = 8961, queue = 12533, heur = -7.0, depth = 7
iter = 8962, queue = 12533, heur = -7.0, depth = 7
iter = 8963, queue = 12534, heur = -7.0, depth = 7
iter = 8964, queue = 12537, heur = -7.0, depth = 7
iter = 8965, queue = 12539, heur = -7.0, depth = 7
iter = 8966, queue = 12540, heur = -7.0, depth = 7
iter = 8967, queue = 12543, heur = -7.0, depth = 7
iter = 8968, queue = 12544, heur = -7.0, depth = 7
iter = 8969, queue = 12547, heur = -7.0, depth = 7
iter = 8970, queue = 12549, heur = -7.0, depth = 7
```

```
iter = 8971, queue = 12551, heur = -7.0, depth = 7
iter = 8972, queue = 12552, heur = -7.0, depth = 7
iter = 8973, queue = 12551, heur = -7.0, depth = 7
iter = 8974, queue = 12552, heur = -7.0, depth = 7
iter = 8975, queue = 12553, heur = -7.0, depth = 7
iter = 8976, queue = 12556, heur = -7.0, depth = 7
iter = 8977, queue = 12559, heur = -7.0, depth = 7
iter = 8978, queue = 12562, heur = -7.0, depth = 7
iter = 8979, queue = 12563, heur = -7.0, depth = 7
iter = 8980, queue = 12566, heur = -7.0, depth = 7
iter = 8981, queue = 12568, heur = -7.0, depth = 7
iter = 8982, queue = 12569, heur = -7.0, depth = 7
iter = 8983, queue = 12569, heur = -7.0, depth = 7
iter = 8984, queue = 12572, heur = -7.0, depth = 7
iter = 8985, queue = 12575, heur = -7.0, depth = 7
iter = 8986, queue = 12578, heur = -7.0, depth = 7
iter = 8987, queue = 12579, heur = -7.0, depth = 7
iter = 8988, queue = 12581, heur = -7.0, depth = 7
iter = 8989, queue = 12584, heur = -7.0, depth = 7
iter = 8990, queue = 12584, heur = -7.0, depth = 7
iter = 8991, queue = 12586, heur = -7.0, depth = 7
iter = 8992, queue = 12587, heur = -7.0, depth = 7
iter = 8993, queue = 12588, heur = -7.0, depth = 7
iter = 8994, queue = 12589, heur = -7.0, depth = 7
iter = 8995, queue = 12591, heur = -7.0, depth = 7
iter = 8996, queue = 12592, heur = -7.0, depth = 7
iter = 8997, queue = 12592, heur = -7.0, depth = 7
iter = 8998, queue = 12593, heur = -7.0, depth = 7
iter = 8999, queue = 12595, heur = -7.0, depth = 7
iter = 9000, queue = 12597, heur = -7.0, depth = 7
iter = 9001, queue = 12599, heur = -7.0, depth = 7
iter = 9002, queue = 12598, heur = -7.0, depth = 7
iter = 9003, queue = 12599, heur = -7.0, depth = 7
iter = 9004, queue = 12598, heur = -7.0, depth = 7
iter = 9005, queue = 12597, heur = -7.0, depth = 7
iter = 9006, queue = 12598, heur = -7.0, depth = 7
iter = 9007, queue = 12599, heur = -7.0, depth = 7
iter = 9008, queue = 12600, heur = -7.0, depth = 7
iter = 9009, queue = 12601, heur = -7.0, depth = 7
iter = 9010, queue = 12601, heur = -7.0, depth = 7
iter = 9011, queue = 12602, heur = -7.0, depth = 7
iter = 9012, queue = 12604, heur = -7.0, depth = 7
iter = 9013, queue = 12605, heur = -7.0, depth = 7
iter = 9014, queue = 12604, heur = -7.0, depth = 7
iter = 9015, queue = 12603, heur = -7.0, depth = 7
iter = 9016, queue = 12606, heur = -7.0, depth = 7
iter = 9017, queue = 12609, heur = -7.0, depth = 7
iter = 9018, queue = 12610, heur = -7.0, depth = 7
iter = 9019, queue = 12611, heur = -7.0, depth = 7
iter = 9020, queue = 12612, heur = -7.0, depth = 7
iter = 9021, queue = 12613, heur = -7.0, depth = 7
iter = 9022, queue = 12614, heur = -7.0, depth = 7
iter = 9023, queue = 12615, heur = -7.0, depth = 8
iter = 9024, queue = 12616, heur = -7.0, depth = 8
iter = 9025, queue = 12618, heur = -7.0, depth = 7
iter = 9026, queue = 12619, heur = -7.0, depth = 7
iter = 9027, queue = 12621, heur = -7.0, depth = 7
iter = 9028, queue = 12622, heur = -7.0, depth = 7
iter = 9029, queue = 12623, heur = -7.0, depth = 7
```

```
iter = 9030, queue = 12623, heur = -7.0, depth = 7
iter = 9031, queue = 12626, heur = -7.0, depth = 7
iter = 9032, queue = 12627, heur = -7.0, depth = 7
iter = 9033, queue = 12627, heur = -7.0, depth = 7
iter = 9034, queue = 12629, heur = -7.0, depth = 7
iter = 9035, queue = 12630, heur = -7.0, depth = 7
iter = 9036, queue = 12631, heur = -7.0, depth = 7
iter = 9037, queue = 12632, heur = -7.0, depth = 7
iter = 9038, queue = 12633, heur = -7.0, depth = 7
iter = 9039, queue = 12636, heur = -7.0, depth = 7
iter = 9040, queue = 12635, heur = -7.0, depth = 7
iter = 9041, queue = 12637, heur = -7.0, depth = 7
iter = 9042, queue = 12640, heur = -7.0, depth = 7
iter = 9043, queue = 12643, heur = -7.0, depth = 7
iter = 9044, queue = 12645, heur = -7.0, depth = 7
iter = 9045, queue = 12648, heur = -7.0, depth = 10
iter = 9046, queue = 12650, heur = -7.0, depth = 7
iter = 9047, queue = 12650, heur = -7.0, depth = 11
iter = 9048, queue = 12650, heur = -7.0, depth = 7
iter = 9049, queue = 12652, heur = -7.0, depth = 7
iter = 9050, queue = 12651, heur = -7.0, depth = 7
iter = 9051, queue = 12652, heur = -7.0, depth = 7
iter = 9052, queue = 12653, heur = -7.0, depth = 7
iter = 9053, queue = 12654, heur = -7.0, depth = 7
iter = 9054, queue = 12655, heur = -7.0, depth = 7
iter = 9055, queue = 12656, heur = -7.0, depth = 7
iter = 9056, queue = 12657, heur = -7.0, depth = 7
iter = 9057, queue = 12658, heur = -7.0, depth = 7
iter = 9058, queue = 12658, heur = -7.0, depth = 7
iter = 9059, queue = 12657, heur = -7.0, depth = 7
iter = 9060, queue = 12659, heur = -7.0, depth = 7
iter = 9061, queue = 12659, heur = -7.0, depth = 7
iter = 9062, queue = 12659, heur = -7.0, depth = 7
iter = 9063, queue = 12662, heur = -7.0, depth = 7
iter = 9064, queue = 12663, heur = -7.0, depth = 7
iter = 9065, queue = 12665, heur = -7.0, depth = 7
iter = 9066, queue = 12668, heur = -7.0, depth = 7
iter = 9067, queue = 12671, heur = -7.0, depth = 7
iter = 9068, queue = 12672, heur = -7.0, depth = 8
iter = 9069, queue = 12671, heur = -7.0, depth = 7
iter = 9070, queue = 12672, heur = -7.0, depth = 7
iter = 9071, queue = 12672, heur = -7.0, depth = 7
iter = 9072, queue = 12673, heur = -7.0, depth = 7
iter = 9073, queue = 12673, heur = -7.0, depth = 7
iter = 9074, queue = 12676, heur = -7.0, depth = 7
iter = 9075, queue = 12679, heur = -7.0, depth = 7
iter = 9076, queue = 12678, heur = -7.0, depth = 7
iter = 9077, queue = 12679, heur = -7.0, depth = 7
iter = 9078, queue = 12682, heur = -7.0, depth = 7
iter = 9079, queue = 12681, heur = -7.0, depth = 7
iter = 9080, queue = 12682, heur = -7.0, depth = 7
iter = 9081, queue = 12683, heur = -7.0, depth = 7
iter = 9082, queue = 12682, heur = -7.0, depth = 7
iter = 9083, queue = 12683, heur = -7.0, depth = 7
iter = 9084, queue = 12684, heur = -7.0, depth = 7
iter = 9085, queue = 12685, heur = -7.0, depth = 7
iter = 9086, queue = 12687, heur = -7.0, depth = 7
iter = 9087, queue = 12688, heur = -7.0, depth = 7
iter = 9088, queue = 12690, heur = -7.0, depth = 7
```

```
iter = 9089, queue = 12693, heur = -7.0, depth = 7
iter = 9090, queue = 12694, heur = -7.0, depth = 7
iter = 9091, queue = 12695, heur = -7.0, depth = 7
iter = 9092, queue = 12695, heur = -7.0, depth = 7
iter = 9093, queue = 12696, heur = -7.0, depth = 7
iter = 9094, queue = 12698, heur = -7.0, depth = 7
iter = 9095, queue = 12699, heur = -7.0, depth = 7
iter = 9096, queue = 12700, heur = -7.0, depth = 7
iter = 9097, queue = 12699, heur = -7.0, depth = 7
iter = 9098, queue = 12698, heur = -7.0, depth = 7
iter = 9099, queue = 12699, heur = -7.0, depth = 7
iter = 9100, queue = 12699, heur = -7.0, depth = 7
iter = 9101, queue = 12700, heur = -7.0, depth = 7
iter = 9102, queue = 12699, heur = -7.0, depth = 7
iter = 9103, queue = 12702, heur = -7.0, depth = 7
iter = 9104, queue = 12705, heur = -7.0, depth = 7
iter = 9105, queue = 12707, heur = -7.0, depth = 7
iter = 9106, queue = 12707, heur = -7.0, depth = 7
iter = 9107, queue = 12706, heur = -7.0, depth = 7
iter = 9108, queue = 12709, heur = -7.0, depth = 7
iter = 9109, queue = 12711, heur = -7.0, depth = 7
iter = 9110, queue = 12714, heur = -7.0, depth = 7
iter = 9111, queue = 12715, heur = -7.0, depth = 7
iter = 9112, queue = 12718, heur = -7.0, depth = 7
iter = 9113, queue = 12719, heur = -7.0, depth = 7
iter = 9114, queue = 12720, heur = -7.0, depth = 7
iter = 9115, queue = 12719, heur = -7.0, depth = 7
iter = 9116, queue = 12720, heur = -7.0, depth = 7
iter = 9117, queue = 12722, heur = -7.0, depth = 8
iter = 9118, queue = 12723, heur = -7.0, depth = 7
iter = 9119, queue = 12724, heur = -7.0, depth = 7
iter = 9120, queue = 12725, heur = -7.0, depth = 7
iter = 9121, queue = 12726, heur = -7.0, depth = 7
iter = 9122, queue = 12727, heur = -7.0, depth = 7
iter = 9123, queue = 12727, heur = -7.0, depth = 7
iter = 9124, queue = 12728, heur = -7.0, depth = 7
iter = 9125, queue = 12728, heur = -7.0, depth = 7
iter = 9126, queue = 12729, heur = -7.0, depth = 7
iter = 9127, queue = 12730, heur = -7.0, depth = 7
iter = 9128, queue = 12731, heur = -7.0, depth = 8
iter = 9129, queue = 12732, heur = -7.0, depth = 7
iter = 9130, queue = 12733, heur = -7.0, depth = 7
iter = 9131, queue = 12734, heur = -7.0, depth = 7
iter = 9132, queue = 12737, heur = -7.0, depth = 7
iter = 9133, queue = 12738, heur = -7.0, depth = 7
iter = 9134, queue = 12738, heur = -7.0, depth = 9
iter = 9135, queue = 12738, heur = -7.0, depth = 7
iter = 9136, queue = 12739, heur = -7.0, depth = 7
iter = 9137, queue = 12741, heur = -7.0, depth = 7
iter = 9138, queue = 12744, heur = -7.0, depth = 7
iter = 9139, queue = 12745, heur = -7.0, depth = 7
iter = 9140, queue = 12746, heur = -7.0, depth = 7
iter = 9141, queue = 12747, heur = -7.0, depth = 7
iter = 9142, queue = 12749, heur = -7.0, depth = 7
iter = 9143, queue = 12750, heur = -7.0, depth = 7
iter = 9144, queue = 12752, heur = -7.0, depth = 7
iter = 9145, queue = 12752, heur = -7.0, depth = 7
iter = 9146, queue = 12755, heur = -7.0, depth = 7
iter = 9147, queue = 12756, heur = -7.0, depth = 7
```

```
iter = 9148, queue = 12756, heur = -7.0, depth = 7
iter = 9149, queue = 12757, heur = -7.0, depth = 7
iter = 9150, queue = 12757, heur = -7.0, depth = 7
iter = 9151, queue = 12759, heur = -7.0, depth = 7
iter = 9152, queue = 12759, heur = -7.0, depth = 7
iter = 9153, queue = 12761, heur = -7.0, depth = 7
iter = 9154, queue = 12762, heur = -7.0, depth = 7
iter = 9155, queue = 12763, heur = -7.0, depth = 7
iter = 9156, queue = 12765, heur = -7.0, depth = 7
iter = 9157, queue = 12768, heur = -7.0, depth = 7
iter = 9158, queue = 12769, heur = -7.0, depth = 7
iter = 9159, queue = 12770, heur = -7.0, depth = 7
iter = 9160, queue = 12772, heur = -7.0, depth = 7
iter = 9161, queue = 12773, heur = -7.0, depth = 7
iter = 9162, queue = 12774, heur = -7.0, depth = 7
iter = 9163, queue = 12777, heur = -7.0, depth = 7
iter = 9164, queue = 12778, heur = -7.0, depth = 7
iter = 9165, queue = 12779, heur = -7.0, depth = 7
iter = 9166, queue = 12780, heur = -7.0, depth = 7
iter = 9167, queue = 12783, heur = -7.0, depth = 7
iter = 9168, queue = 12784, heur = -7.0, depth = 7
iter = 9169, queue = 12787, heur = -7.0, depth = 9
iter = 9170, queue = 12790, heur = -7.0, depth = 7
iter = 9171, queue = 12793, heur = -7.0, depth = 7
iter = 9172, queue = 12794, heur = -7.0, depth = 7
iter = 9173, queue = 12793, heur = -7.0, depth = 7
iter = 9174, queue = 12794, heur = -7.0, depth = 7
iter = 9175, queue = 12795, heur = -7.0, depth = 7
iter = 9176, queue = 12796, heur = -7.0, depth = 7
iter = 9177, queue = 12797, heur = -7.0, depth = 7
iter = 9178, queue = 12798, heur = -7.0, depth = 7
iter = 9179, queue = 12800, heur = -7.0, depth = 7
iter = 9180, queue = 12801, heur = -7.0, depth = 7
iter = 9181, queue = 12804, heur = -7.0, depth = 8
iter = 9182, queue = 12805, heur = -7.0, depth = 7
iter = 9183, queue = 12804, heur = -7.0, depth = 9
iter = 9184, queue = 12805, heur = -7.0, depth = 7
iter = 9185, queue = 12806, heur = -7.0, depth = 7
iter = 9186, queue = 12807, heur = -7.0, depth = 7
iter = 9187, queue = 12808, heur = -7.0, depth = 7
iter = 9188, queue = 12808, heur = -7.0, depth = 7
iter = 9189, queue = 12809, heur = -7.0, depth = 7
iter = 9190, queue = 12812, heur = -7.0, depth = 7
iter = 9191, queue = 12811, heur = -7.0, depth = 7
iter = 9192, queue = 12812, heur = -7.0, depth = 7
iter = 9193, queue = 12815, heur = -7.0, depth = 7
iter = 9194, queue = 12815, heur = -7.0, depth = 7
iter = 9195, queue = 12816, heur = -7.0, depth = 7
iter = 9196, queue = 12819, heur = -7.0, depth = 7
iter = 9197, queue = 12820, heur = -7.0, depth = 7
iter = 9198, queue = 12821, heur = -7.0, depth = 7
iter = 9199, queue = 12820, heur = -7.0, depth = 7
iter = 9200, queue = 12821, heur = -7.0, depth = 7
iter = 9201, queue = 12824, heur = -7.0, depth = 7
iter = 9202, queue = 12825, heur = -7.0, depth = 7
iter = 9203, queue = 12824, heur = -7.0, depth = 7
iter = 9204, queue = 12825, heur = -7.0, depth = 7
iter = 9205, queue = 12826, heur = -7.0, depth = 7
iter = 9206, queue = 12827, heur = -8.0, depth = 8
```

```
iter = 9207, queue = 12828, heur = -8.0, depth = 8
iter = 9208, queue = 12828, heur = -8.0, depth = 9
iter = 9209, queue = 12831, heur = -8.0, depth = 9
iter = 9210, queue = 12834, heur = -8.0, depth = 8
iter = 9211, queue = 12833, heur = -8.0, depth = 10
iter = 9212, queue = 12835, heur = -8.0, depth = 9
iter = 9213, queue = 12836, heur = -8.0, depth = 8
iter = 9214, queue = 12837, heur = -8.0, depth = 8
iter = 9215, queue = 12838, heur = -8.0, depth = 8
iter = 9216, queue = 12840, heur = -8.0, depth = 8
iter = 9217, queue = 12841, heur = -8.0, depth = 8
iter = 9218, queue = 12842, heur = -8.0, depth = 8
iter = 9219, queue = 12843, heur = -8.0, depth = 8
iter = 9220, queue = 12846, heur = -8.0, depth = 8
iter = 9221, queue = 12849, heur = -8.0, depth = 8
iter = 9222, queue = 12850, heur = -8.0, depth = 8
iter = 9223, queue = 12853, heur = -8.0, depth = 8
iter = 9224, queue = 12854, heur = -8.0, depth = 9
iter = 9225, queue = 12855, heur = -8.0, depth = 10
iter = 9226, queue = 12857, heur = -8.0, depth = 8
iter = 9227, queue = 12860, heur = -8.0, depth = 8
iter = 9228, queue = 12863, heur = -8.0, depth = 9
iter = 9229, queue = 12865, heur = -8.0, depth = 8
iter = 9230, queue = 12866, heur = -8.0, depth = 8
iter = 9231, queue = 12869, heur = -8.0, depth = 8
iter = 9232, queue = 12868, heur = -8.0, depth = 8
iter = 9233, queue = 12869, heur = -8.0, depth = 8
iter = 9234, queue = 12870, heur = -8.0, depth = 8
iter = 9235, queue = 12873, heur = -8.0, depth = 8
iter = 9236, queue = 12874, heur = -8.0, depth = 8
iter = 9237, queue = 12877, heur = -8.0, depth = 8
iter = 9238, queue = 12880, heur = -8.0, depth = 8
iter = 9239, queue = 12883, heur = -8.0, depth = 8
iter = 9240, queue = 12882, heur = -8.0, depth = 8
iter = 9241, queue = 12883, heur = -8.0, depth = 8
iter = 9242, queue = 12886, heur = -8.0, depth = 8
iter = 9243, queue = 12889, heur = -8.0, depth = 8
iter = 9244, queue = 12888, heur = -8.0, depth = 8
iter = 9245, queue = 12891, heur = -8.0, depth = 8
iter = 9246, queue = 12892, heur = -8.0, depth = 8
iter = 9247, queue = 12893, heur = -8.0, depth = 9
iter = 9248, queue = 12895, heur = -8.0, depth = 8
iter = 9249, queue = 12896, heur = -8.0, depth = 8
iter = 9250, queue = 12897, heur = -8.0, depth = 8
iter = 9251, queue = 12898, heur = -8.0, depth = 8
iter = 9252, queue = 12900, heur = -8.0, depth = 8
iter = 9253, queue = 12902, heur = -8.0, depth = 8
iter = 9254, queue = 12903, heur = -8.0, depth = 8
iter = 9255, queue = 12903, heur = -8.0, depth = 8
iter = 9256, queue = 12905, heur = -8.0, depth = 10
iter = 9257, queue = 12908, heur = -8.0, depth = 8
iter = 9258, queue = 12911, heur = -8.0, depth = 8
iter = 9259, queue = 12914, heur = -8.0, depth = 8
iter = 9260, queue = 12917, heur = -8.0, depth = 8
iter = 9261, queue = 12918, heur = -8.0, depth = 8
iter = 9262, queue = 12921, heur = -8.0, depth = 8
iter = 9263, queue = 12922, heur = -8.0, depth = 8
iter = 9264, queue = 12921, heur = -8.0, depth = 9
iter = 9265, queue = 12923, heur = -8.0, depth = 8
```

```
iter = 9266, queue = 12924, heur = -8.0, depth = 8
iter = 9267, queue = 12925, heur = -8.0, depth = 8
iter = 9268, queue = 12924, heur = -8.0, depth = 8
iter = 9269, queue = 12927, heur = -8.0, depth = 8
iter = 9270, queue = 12928, heur = -8.0, depth = 8
iter = 9271, queue = 12930, heur = -8.0, depth = 8
iter = 9272, queue = 12932, heur = -8.0, depth = 8
iter = 9273, queue = 12933, heur = -8.0, depth = 8
iter = 9274, queue = 12936, heur = -8.0, depth = 8
iter = 9275, queue = 12937, heur = -8.0, depth = 8
iter = 9276, queue = 12938, heur = -8.0, depth = 8
iter = 9277, queue = 12941, heur = -8.0, depth = 8
iter = 9278, queue = 12942, heur = -8.0, depth = 8
iter = 9279, queue = 12943, heur = -8.0, depth = 8
iter = 9280, queue = 12944, heur = -8.0, depth = 8
iter = 9281, queue = 12947, heur = -8.0, depth = 8
iter = 9282, queue = 12948, heur = -8.0, depth = 8
iter = 9283, queue = 12949, heur = -8.0, depth = 8
iter = 9284, queue = 12950, heur = -8.0, depth = 8
iter = 9285, queue = 12949, heur = -8.0, depth = 8
iter = 9286, queue = 12950, heur = -8.0, depth = 8
iter = 9287, queue = 12951, heur = -8.0, depth = 8
iter = 9288, queue = 12952, heur = -8.0, depth = 8
iter = 9289, queue = 12955, heur = -8.0, depth = 8
iter = 9290, queue = 12958, heur = -8.0, depth = 8
iter = 9291, queue = 12961, heur = -8.0, depth = 8
iter = 9292, queue = 12964, heur = -8.0, depth = 8
iter = 9293, queue = 12965, heur = -8.0, depth = 8
iter = 9294, queue = 12968, heur = -8.0, depth = 8
iter = 9295, queue = 12969, heur = -8.0, depth = 8
iter = 9296, queue = 12971, heur = -8.0, depth = 8
iter = 9297, queue = 12974, heur = -8.0, depth = 8
iter = 9298, queue = 12977, heur = -8.0, depth = 8
iter = 9299, queue = 12980, heur = -8.0, depth = 8
iter = 9300, queue = 12981, heur = -8.0, depth = 8
iter = 9301, queue = 12984, heur = -8.0, depth = 8
iter = 9302, queue = 12985, heur = -8.0, depth = 8
iter = 9303, queue = 12985, heur = -8.0, depth = 8
iter = 9304, queue = 12986, heur = -8.0, depth = 8
iter = 9305, queue = 12989, heur = -8.0, depth = 8
iter = 9306, queue = 12992, heur = -8.0, depth = 8
iter = 9307, queue = 12993, heur = -8.0, depth = 8
iter = 9308, queue = 12996, heur = -8.0, depth = 8
iter = 9309, queue = 12997, heur = -8.0, depth = 8
iter = 9310, queue = 13000, heur = -8.0, depth = 8
iter = 9311, queue = 13000, heur = -8.0, depth = 8
iter = 9312, queue = 13001, heur = -8.0, depth = 8
iter = 9313, queue = 13002, heur = -8.0, depth = 8
iter = 9314, queue = 13005, heur = -8.0, depth = 8
iter = 9315, queue = 13007, heur = -8.0, depth = 8
iter = 9316, queue = 13010, heur = -8.0, depth = 8
iter = 9317, queue = 13012, heur = -8.0, depth = 8
iter = 9318, queue = 13013, heur = -8.0, depth = 8
iter = 9319, queue = 13016, heur = -8.0, depth = 8
iter = 9320, queue = 13019, heur = -8.0, depth = 8
iter = 9321, queue = 13020, heur = -8.0, depth = 8
iter = 9322, queue = 13021, heur = -8.0, depth = 8
iter = 9323, queue = 13022, heur = -8.0, depth = 8
iter = 9324, queue = 13025, heur = -8.0, depth = 8
```

```
iter = 9325, queue = 13026, heur = -8.0, depth = 8
iter = 9326, queue = 13025, heur = -8.0, depth = 8
iter = 9327, queue = 13026, heur = -8.0, depth = 8
iter = 9328, queue = 13028, heur = -8.0, depth = 8
iter = 9329, queue = 13029, heur = -8.0, depth = 8
iter = 9330, queue = 13031, heur = -8.0, depth = 8
iter = 9331, queue = 13034, heur = -8.0, depth = 8
iter = 9332, queue = 13037, heur = -8.0, depth = 8
iter = 9333, queue = 13038, heur = -8.0, depth = 8
iter = 9334, queue = 13040, heur = -8.0, depth = 8
iter = 9335, queue = 13041, heur = -8.0, depth = 8
iter = 9336, queue = 13042, heur = -8.0, depth = 8
iter = 9337, queue = 13045, heur = -8.0, depth = 8
iter = 9338, queue = 13046, heur = -8.0, depth = 8
iter = 9339, queue = 13046, heur = -8.0, depth = 8
iter = 9340, queue = 13049, heur = -8.0, depth = 10
iter = 9341, queue = 13052, heur = -8.0, depth = 8
iter = 9342, queue = 13053, heur = -8.0, depth = 8
iter = 9343, queue = 13055, heur = -8.0, depth = 8
iter = 9344, queue = 13056, heur = -8.0, depth = 8
iter = 9345, queue = 13057, heur = -8.0, depth = 8
iter = 9346, queue = 13058, heur = -8.0, depth = 8
iter = 9347, queue = 13061, heur = -8.0, depth = 8
iter = 9348, queue = 13064, heur = -8.0, depth = 8
iter = 9349, queue = 13065, heur = -8.0, depth = 8
iter = 9350, queue = 13068, heur = -8.0, depth = 8
iter = 9351, queue = 13069, heur = -8.0, depth = 8
iter = 9352, queue = 13070, heur = -8.0, depth = 8
iter = 9353, queue = 13073, heur = -8.0, depth = 8
iter = 9354, queue = 13074, heur = -8.0, depth = 8
iter = 9355, queue = 13073, heur = -8.0, depth = 8
iter = 9356, queue = 13074, heur = -8.0, depth = 8
iter = 9357, queue = 13075, heur = -8.0, depth = 8
iter = 9358, queue = 13077, heur = -8.0, depth = 8
iter = 9359, queue = 13077, heur = -8.0, depth = 8
iter = 9360, queue = 13079, heur = -8.0, depth = 8
iter = 9361, queue = 13080, heur = -8.0, depth = 8
iter = 9362, queue = 13083, heur = -8.0, depth = 8
iter = 9363, queue = 13084, heur = -8.0, depth = 8
iter = 9364, queue = 13083, heur = -8.0, depth = 8
iter = 9365, queue = 13084, heur = -8.0, depth = 8
iter = 9366, queue = 13085, heur = -8.0, depth = 8
iter = 9367, queue = 13088, heur = -8.0, depth = 8
iter = 9368, queue = 13089, heur = -8.0, depth = 8
iter = 9369, queue = 13090, heur = -8.0, depth = 8
iter = 9370, queue = 13093, heur = -8.0, depth = 8
iter = 9371, queue = 13096, heur = -8.0, depth = 8
iter = 9372, queue = 13097, heur = -8.0, depth = 8
iter = 9373, queue = 13100, heur = -8.0, depth = 8
iter = 9374, queue = 13103, heur = -8.0, depth = 8
iter = 9375, queue = 13104, heur = -8.0, depth = 8
iter = 9376, queue = 13105, heur = -8.0, depth = 8
iter = 9377, queue = 13106, heur = -8.0, depth = 8
iter = 9378, queue = 13108, heur = -8.0, depth = 8
iter = 9379, queue = 13111, heur = -8.0, depth = 8
iter = 9380, queue = 13112, heur = -8.0, depth = 8
iter = 9381, queue = 13115, heur = -8.0, depth = 8
iter = 9382, queue = 13118, heur = -8.0, depth = 8
iter = 9383, queue = 13118, heur = -8.0, depth = 8
```

```
iter = 9384, queue = 13118, heur = -8.0, depth = 8
iter = 9385, queue = 13121, heur = -8.0, depth = 8
iter = 9386, queue = 13121, heur = -8.0, depth = 8
iter = 9387, queue = 13122, heur = -8.0, depth = 8
iter = 9388, queue = 13123, heur = -8.0, depth = 8
iter = 9389, queue = 13126, heur = -8.0, depth = 8
iter = 9390, queue = 13127, heur = -8.0, depth = 8
iter = 9391, queue = 13126, heur = -8.0, depth = 8
iter = 9392, queue = 13128, heur = -8.0, depth = 8
iter = 9393, queue = 13131, heur = -8.0, depth = 8
iter = 9394, queue = 13133, heur = -8.0, depth = 8
iter = 9395, queue = 13134, heur = -8.0, depth = 8
iter = 9396, queue = 13137, heur = -8.0, depth = 8
iter = 9397, queue = 13138, heur = -8.0, depth = 8
iter = 9398, queue = 13139, heur = -8.0, depth = 8
iter = 9399, queue = 13142, heur = -8.0, depth = 8
iter = 9400, queue = 13145, heur = -8.0, depth = 8
iter = 9401, queue = 13148, heur = -8.0, depth = 8
iter = 9402, queue = 13147, heur = -8.0, depth = 8
iter = 9403, queue = 13148, heur = -8.0, depth = 10
iter = 9404, queue = 13149, heur = -8.0, depth = 8
iter = 9405, queue = 13151, heur = -8.0, depth = 8
iter = 9406, queue = 13152, heur = -8.0, depth = 8
iter = 9407, queue = 13151, heur = -8.0, depth = 8
iter = 9408, queue = 13154, heur = -8.0, depth = 8
iter = 9409, queue = 13156, heur = -8.0, depth = 8
iter = 9410, queue = 13157, heur = -8.0, depth = 8
iter = 9411, queue = 13158, heur = -8.0, depth = 8
iter = 9412, queue = 13161, heur = -8.0, depth = 8
iter = 9413, queue = 13164, heur = -8.0, depth = 8
iter = 9414, queue = 13167, heur = -8.0, depth = 8
iter = 9415, queue = 13169, heur = -8.0, depth = 8
iter = 9416, queue = 13169, heur = -8.0, depth = 8
iter = 9417, queue = 13170, heur = -8.0, depth = 8
iter = 9418, queue = 13173, heur = -8.0, depth = 8
iter = 9419, queue = 13174, heur = -8.0, depth = 8
iter = 9420, queue = 13177, heur = -8.0, depth = 8
iter = 9421, queue = 13180, heur = -8.0, depth = 8
iter = 9422, queue = 13181, heur = -8.0, depth = 8
iter = 9423, queue = 13184, heur = -8.0, depth = 8
iter = 9424, queue = 13184, heur = -8.0, depth = 8
iter = 9425, queue = 13184, heur = -8.0, depth = 9
iter = 9426, queue = 13185, heur = -8.0, depth = 8
iter = 9427, queue = 13188, heur = -8.0, depth = 8
iter = 9428, queue = 13188, heur = -8.0, depth = 8
iter = 9429, queue = 13191, heur = -8.0, depth = 8
iter = 9430, queue = 13194, heur = -8.0, depth = 8
iter = 9431, queue = 13197, heur = -8.0, depth = 8
iter = 9432, queue = 13200, heur = -8.0, depth = 8
iter = 9433, queue = 13203, heur = -8.0, depth = 8
iter = 9434, queue = 13204, heur = -8.0, depth = 8
iter = 9435, queue = 13207, heur = -8.0, depth = 8
iter = 9436, queue = 13210, heur = -8.0, depth = 8
iter = 9437, queue = 13211, heur = -8.0, depth = 8
iter = 9438, queue = 13212, heur = -8.0, depth = 8
iter = 9439, queue = 13215, heur = -8.0, depth = 8
iter = 9440, queue = 13217, heur = -8.0, depth = 8
iter = 9441, queue = 13220, heur = -8.0, depth = 8
iter = 9442, queue = 13223, heur = -8.0, depth = 8
```

```
iter = 9443, queue = 13222, heur = -8.0, depth = 8
iter = 9444, queue = 13223, heur = -8.0, depth = 8
iter = 9445, queue = 13226, heur = -8.0, depth = 8
iter = 9446, queue = 13229, heur = -8.0, depth = 8
iter = 9447, queue = 13228, heur = -8.0, depth = 8
iter = 9448, queue = 13231, heur = -8.0, depth = 8
iter = 9449, queue = 13232, heur = -8.0, depth = 8
iter = 9450, queue = 13235, heur = -8.0, depth = 8
iter = 9451, queue = 13238, heur = -8.0, depth = 8
iter = 9452, queue = 13239, heur = -8.0, depth = 8
iter = 9453, queue = 13240, heur = -8.0, depth = 8
iter = 9454, queue = 13242, heur = -8.0, depth = 8
iter = 9455, queue = 13242, heur = -8.0, depth = 8
iter = 9456, queue = 13243, heur = -8.0, depth = 8
iter = 9457, queue = 13244, heur = -8.0, depth = 8
iter = 9458, queue = 13245, heur = -8.0, depth = 8
iter = 9459, queue = 13248, heur = -8.0, depth = 8
iter = 9460, queue = 13251, heur = -8.0, depth = 8
iter = 9461, queue = 13252, heur = -8.0, depth = 8
iter = 9462, queue = 13253, heur = -8.0, depth = 8
iter = 9463, queue = 13255, heur = -8.0, depth = 8
iter = 9464, queue = 13258, heur = -8.0, depth = 8
iter = 9465, queue = 13259, heur = -8.0, depth = 8
iter = 9466, queue = 13258, heur = -8.0, depth = 8
iter = 9467, queue = 13261, heur = -8.0, depth = 9
iter = 9468, queue = 13264, heur = -8.0, depth = 8
iter = 9469, queue = 13263, heur = -8.0, depth = 8
iter = 9470, queue = 13266, heur = -8.0, depth = 8
iter = 9471, queue = 13269, heur = -8.0, depth = 8
iter = 9472, queue = 13270, heur = -8.0, depth = 8
iter = 9473, queue = 13271, heur = -8.0, depth = 8
iter = 9474, queue = 13274, heur = -8.0, depth = 8
iter = 9475, queue = 13275, heur = -8.0, depth = 8
iter = 9476, queue = 13278, heur = -8.0, depth = 8
iter = 9477, queue = 13279, heur = -8.0, depth = 8
iter = 9478, queue = 13282, heur = -8.0, depth = 8
iter = 9479, queue = 13285, heur = -8.0, depth = 8
iter = 9480, queue = 13286, heur = -8.0, depth = 8
iter = 9481, queue = 13286, heur = -8.0, depth = 8
iter = 9482, queue = 13286, heur = -8.0, depth = 8
iter = 9483, queue = 13287, heur = -8.0, depth = 8
iter = 9484, queue = 13288, heur = -8.0, depth = 8
iter = 9485, queue = 13291, heur = -8.0, depth = 8
iter = 9486, queue = 13294, heur = -8.0, depth = 8
iter = 9487, queue = 13295, heur = -8.0, depth = 8
iter = 9488, queue = 13295, heur = -8.0, depth = 8
iter = 9489, queue = 13296, heur = -8.0, depth = 8
iter = 9490, queue = 13299, heur = -8.0, depth = 8
iter = 9491, queue = 13300, heur = -8.0, depth = 8
iter = 9492, queue = 13302, heur = -8.0, depth = 8
iter = 9493, queue = 13303, heur = -8.0, depth = 8
iter = 9494, queue = 13304, heur = -8.0, depth = 8
iter = 9495, queue = 13305, heur = -8.0, depth = 8
iter = 9496, queue = 13308, heur = -8.0, depth = 8
iter = 9497, queue = 13310, heur = -8.0, depth = 8
iter = 9498, queue = 13312, heur = -8.0, depth = 8
iter = 9499, queue = 13314, heur = -8.0, depth = 8
iter = 9500, queue = 13317, heur = -8.0, depth = 8
iter = 9501, queue = 13318, heur = -8.0, depth = 8
```

```
iter = 9502, queue = 13321, heur = -8.0, depth = 8
iter = 9503, queue = 13324, heur = -8.0, depth = 8
iter = 9504, queue = 13327, heur = -8.0, depth = 8
iter = 9505, queue = 13330, heur = -8.0, depth = 8
iter = 9506, queue = 13333, heur = -8.0, depth = 8
iter = 9507, queue = 13336, heur = -8.0, depth = 8
iter = 9508, queue = 13339, heur = -8.0, depth = 8
iter = 9509, queue = 13340, heur = -8.0, depth = 8
iter = 9510, queue = 13341, heur = -8.0, depth = 8
iter = 9511, queue = 13342, heur = -8.0, depth = 8
iter = 9512, queue = 13345, heur = -8.0, depth = 8
iter = 9513, queue = 13346, heur = -8.0, depth = 8
iter = 9514, queue = 13347, heur = -8.0, depth = 8
iter = 9515, queue = 13346, heur = -8.0, depth = 8
iter = 9516, queue = 13348, heur = -8.0, depth = 8
iter = 9517, queue = 13351, heur = -8.0, depth = 8
iter = 9518, queue = 13352, heur = -8.0, depth = 8
iter = 9519, queue = 13351, heur = -8.0, depth = 8
iter = 9520, queue = 13352, heur = -8.0, depth = 8
iter = 9521, queue = 13353, heur = -8.0, depth = 8
iter = 9522, queue = 13356, heur = -8.0, depth = 9
iter = 9523, queue = 13356, heur = -8.0, depth = 8
iter = 9524, queue = 13359, heur = -8.0, depth = 8
iter = 9525, queue = 13361, heur = -8.0, depth = 8
iter = 9526, queue = 13363, heur = -8.0, depth = 8
iter = 9527, queue = 13364, heur = -8.0, depth = 8
iter = 9528, queue = 13365, heur = -8.0, depth = 8
iter = 9529, queue = 13366, heur = -8.0, depth = 8
iter = 9530, queue = 13369, heur = -8.0, depth = 8
iter = 9531, queue = 13370, heur = -8.0, depth = 8
iter = 9532, queue = 13373, heur = -8.0, depth = 8
iter = 9533, queue = 13374, heur = -8.0, depth = 8
iter = 9534, queue = 13375, heur = -8.0, depth = 11
iter = 9535, queue = 13376, heur = -8.0, depth = 8
iter = 9536, queue = 13379, heur = -8.0, depth = 8
iter = 9537, queue = 13381, heur = -8.0, depth = 8
iter = 9538, queue = 13384, heur = -8.0, depth = 8
iter = 9539, queue = 13385, heur = -8.0, depth = 8
iter = 9540, queue = 13388, heur = -8.0, depth = 8
iter = 9541, queue = 13389, heur = -8.0, depth = 8
iter = 9542, queue = 13390, heur = -8.0, depth = 8
iter = 9543, queue = 13389, heur = -8.0, depth = 8
iter = 9544, queue = 13390, heur = -8.0, depth = 8
iter = 9545, queue = 13392, heur = -8.0, depth = 8
iter = 9546, queue = 13395, heur = -8.0, depth = 11
iter = 9547, queue = 13398, heur = -8.0, depth = 8
iter = 9548, queue = 13399, heur = -8.0, depth = 8
iter = 9549, queue = 13398, heur = -8.0, depth = 8
iter = 9550, queue = 13399, heur = -8.0, depth = 8
iter = 9551, queue = 13402, heur = -8.0, depth = 8
iter = 9552, queue = 13405, heur = -8.0, depth = 8
iter = 9553, queue = 13406, heur = -8.0, depth = 8
iter = 9554, queue = 13406, heur = -8.0, depth = 8
iter = 9555, queue = 13406, heur = -8.0, depth = 8
iter = 9556, queue = 13407, heur = -8.0, depth = 8
iter = 9557, queue = 13408, heur = -8.0, depth = 10
iter = 9558, queue = 13411, heur = -8.0, depth = 8
iter = 9559, queue = 13410, heur = -8.0, depth = 8
iter = 9560, queue = 13412, heur = -8.0, depth = 8
```

```
iter = 9561, queue = 13413, heur = -8.0, depth = 8
iter = 9562, queue = 13414, heur = -8.0, depth = 8
iter = 9563, queue = 13415, heur = -8.0, depth = 8
iter = 9564, queue = 13416, heur = -8.0, depth = 8
iter = 9565, queue = 13415, heur = -8.0, depth = 8
iter = 9566, queue = 13418, heur = -8.0, depth = 8
iter = 9567, queue = 13419, heur = -8.0, depth = 8
iter = 9568, queue = 13422, heur = -8.0, depth = 8
iter = 9569, queue = 13423, heur = -8.0, depth = 8
iter = 9570, queue = 13424, heur = -8.0, depth = 8
iter = 9571, queue = 13425, heur = -8.0, depth = 8
iter = 9572, queue = 13426, heur = -8.0, depth = 8
iter = 9573, queue = 13429, heur = -8.0, depth = 9
iter = 9574, queue = 13432, heur = -8.0, depth = 8
iter = 9575, queue = 13434, heur = -8.0, depth = 8
iter = 9576, queue = 13437, heur = -8.0, depth = 8
iter = 9577, queue = 13438, heur = -8.0, depth = 8
iter = 9578, queue = 13441, heur = -8.0, depth = 8
iter = 9579, queue = 13442, heur = -8.0, depth = 11
iter = 9580, queue = 13445, heur = -8.0, depth = 8
iter = 9581, queue = 13448, heur = -8.0, depth = 8
iter = 9582, queue = 13450, heur = -8.0, depth = 8
iter = 9583, queue = 13453, heur = -8.0, depth = 11
iter = 9584, queue = 13456, heur = -8.0, depth = 8
iter = 9585, queue = 13459, heur = -8.0, depth = 8
iter = 9586, queue = 13459, heur = -8.0, depth = 8
iter = 9587, queue = 13462, heur = -8.0, depth = 8
iter = 9588, queue = 13464, heur = -8.0, depth = 8
iter = 9589, queue = 13465, heur = -8.0, depth = 8
iter = 9590, queue = 13464, heur = -8.0, depth = 10
iter = 9591, queue = 13467, heur = -8.0, depth = 8
iter = 9592, queue = 13468, heur = -8.0, depth = 8
iter = 9593, queue = 13471, heur = -8.0, depth = 8
iter = 9594, queue = 13472, heur = -8.0, depth = 8
iter = 9595, queue = 13475, heur = -8.0, depth = 8
iter = 9596, queue = 13476, heur = -8.0, depth = 11
iter = 9597, queue = 13477, heur = -8.0, depth = 8
iter = 9598, queue = 13480, heur = -8.0, depth = 8
iter = 9599, queue = 13482, heur = -8.0, depth = 8
iter = 9600, queue = 13485, heur = -8.0, depth = 8
iter = 9601, queue = 13486, heur = -8.0, depth = 9
iter = 9602, queue = 13487, heur = -8.0, depth = 9
iter = 9603, queue = 13490, heur = -8.0, depth = 8
iter = 9604, queue = 13493, heur = -8.0, depth = 10
iter = 9605, queue = 13494, heur = -8.0, depth = 8
iter = 9606, queue = 13495, heur = -8.0, depth = 8
iter = 9607, queue = 13496, heur = -8.0, depth = 8
iter = 9608, queue = 13497, heur = -8.0, depth = 8
iter = 9609, queue = 13500, heur = -8.0, depth = 8
iter = 9610, queue = 13501, heur = -8.0, depth = 8
iter = 9611, queue = 13503, heur = -8.0, depth = 8
iter = 9612, queue = 13504, heur = -8.0, depth = 8
iter = 9613, queue = 13507, heur = -8.0, depth = 8
iter = 9614, queue = 13508, heur = -8.0, depth = 8
iter = 9615, queue = 13511, heur = -8.0, depth = 8
iter = 9616, queue = 13514, heur = -8.0, depth = 8
iter = 9617, queue = 13517, heur = -8.0, depth = 8
iter = 9618, queue = 13518, heur = -8.0, depth = 8
iter = 9619, queue = 13518, heur = -8.0, depth = 8
```

```
iter = 9620, queue = 13519, heur = -8.0, depth = 8
iter = 9621, queue = 13520, heur = -8.0, depth = 8
iter = 9622, queue = 13521, heur = -8.0, depth = 8
iter = 9623, queue = 13524, heur = -8.0, depth = 8
iter = 9624, queue = 13525, heur = -8.0, depth = 8
iter = 9625, queue = 13526, heur = -8.0, depth = 8
iter = 9626, queue = 13527, heur = -8.0, depth = 9
iter = 9627, queue = 13528, heur = -8.0, depth = 8
iter = 9628, queue = 13531, heur = -8.0, depth = 8
iter = 9629, queue = 13532, heur = -8.0, depth = 8
iter = 9630, queue = 13533, heur = -8.0, depth = 8
iter = 9631, queue = 13534, heur = -8.0, depth = 8
iter = 9632, queue = 13534, heur = -8.0, depth = 8
iter = 9633, queue = 13536, heur = -8.0, depth = 8
iter = 9634, queue = 13539, heur = -8.0, depth = 8
iter = 9635, queue = 13542, heur = -8.0, depth = 8
iter = 9636, queue = 13545, heur = -8.0, depth = 8
iter = 9637, queue = 13546, heur = -8.0, depth = 8
iter = 9638, queue = 13549, heur = -8.0, depth = 8
iter = 9639, queue = 13551, heur = -8.0, depth = 8
iter = 9640, queue = 13554, heur = -8.0, depth = 8
iter = 9641, queue = 13557, heur = -8.0, depth = 8
iter = 9642, queue = 13558, heur = -8.0, depth = 8
iter = 9643, queue = 13561, heur = -8.0, depth = 8
iter = 9644, queue = 13562, heur = -8.0, depth = 8
iter = 9645, queue = 13563, heur = -8.0, depth = 8
iter = 9646, queue = 13562, heur = -8.0, depth = 8
iter = 9647, queue = 13565, heur = -8.0, depth = 8
iter = 9648, queue = 13567, heur = -8.0, depth = 8
iter = 9649, queue = 13566, heur = -8.0, depth = 8
iter = 9650, queue = 13567, heur = -8.0, depth = 8
iter = 9651, queue = 13568, heur = -8.0, depth = 8
iter = 9652, queue = 13569, heur = -8.0, depth = 8
iter = 9653, queue = 13572, heur = -8.0, depth = 8
iter = 9654, queue = 13575, heur = -8.0, depth = 8
iter = 9655, queue = 13576, heur = -8.0, depth = 8
iter = 9656, queue = 13575, heur = -8.0, depth = 8
iter = 9657, queue = 13576, heur = -8.0, depth = 8
iter = 9658, queue = 13577, heur = -8.0, depth = 8
iter = 9659, queue = 13580, heur = -8.0, depth = 8
iter = 9660, queue = 13579, heur = -8.0, depth = 8
iter = 9661, queue = 13580, heur = -8.0, depth = 8
iter = 9662, queue = 13579, heur = -8.0, depth = 8
iter = 9663, queue = 13580, heur = -8.0, depth = 8
iter = 9664, queue = 13583, heur = -8.0, depth = 8
iter = 9665, queue = 13584, heur = -8.0, depth = 8
iter = 9666, queue = 13586, heur = -8.0, depth = 8
iter = 9667, queue = 13588, heur = -8.0, depth = 11
iter = 9668, queue = 13589, heur = -8.0, depth = 8
iter = 9669, queue = 13590, heur = -8.0, depth = 8
iter = 9670, queue = 13593, heur = -8.0, depth = 8
iter = 9671, queue = 13594, heur = -8.0, depth = 8
iter = 9672, queue = 13595, heur = -8.0, depth = 8
iter = 9673, queue = 13598, heur = -8.0, depth = 8
iter = 9674, queue = 13600, heur = -8.0, depth = 8
iter = 9675, queue = 13601, heur = -8.0, depth = 8
iter = 9676, queue = 13600, heur = -8.0, depth = 8
iter = 9677, queue = 13603, heur = -8.0, depth = 8
iter = 9678, queue = 13606, heur = -8.0, depth = 8
```

```
iter = 9679, queue = 13606, heur = -8.0, depth = 8
iter = 9680, queue = 13608, heur = -8.0, depth = 8
iter = 9681, queue = 13611, heur = -8.0, depth = 8
iter = 9682, queue = 13612, heur = -8.0, depth = 8
iter = 9683, queue = 13615, heur = -8.0, depth = 8
iter = 9684, queue = 13616, heur = -8.0, depth = 8
iter = 9685, queue = 13617, heur = -8.0, depth = 8
iter = 9686, queue = 13618, heur = -8.0, depth = 8
iter = 9687, queue = 13619, heur = -8.0, depth = 8
iter = 9688, queue = 13620, heur = -8.0, depth = 8
iter = 9689, queue = 13621, heur = -8.0, depth = 8
iter = 9690, queue = 13622, heur = -8.0, depth = 8
iter = 9691, queue = 13625, heur = -8.0, depth = 8
iter = 9692, queue = 13627, heur = -8.0, depth = 8
iter = 9693, queue = 13628, heur = -8.0, depth = 8
iter = 9694, queue = 13629, heur = -8.0, depth = 8
iter = 9695, queue = 13628, heur = -8.0, depth = 8
iter = 9696, queue = 13629, heur = -8.0, depth = 8
iter = 9697, queue = 13631, heur = -8.0, depth = 8
iter = 9698, queue = 13634, heur = -8.0, depth = 8
iter = 9699, queue = 13637, heur = -8.0, depth = 8
iter = 9700, queue = 13638, heur = -8.0, depth = 8
iter = 9701, queue = 13639, heur = -8.0, depth = 8
iter = 9702, queue = 13640, heur = -8.0, depth = 8
iter = 9703, queue = 13641, heur = -8.0, depth = 8
iter = 9704, queue = 13642, heur = -8.0, depth = 8
iter = 9705, queue = 13645, heur = -8.0, depth = 8
iter = 9706, queue = 13646, heur = -8.0, depth = 8
iter = 9707, queue = 13649, heur = -8.0, depth = 8
iter = 9708, queue = 13649, heur = -8.0, depth = 8
iter = 9709, queue = 13652, heur = -8.0, depth = 8
iter = 9710, queue = 13653, heur = -8.0, depth = 8
iter = 9711, queue = 13656, heur = -8.0, depth = 8
iter = 9712, queue = 13657, heur = -8.0, depth = 8
iter = 9713, queue = 13658, heur = -8.0, depth = 8
iter = 9714, queue = 13661, heur = -8.0, depth = 8
iter = 9715, queue = 13660, heur = -8.0, depth = 8
iter = 9716, queue = 13661, heur = -8.0, depth = 8
iter = 9717, queue = 13664, heur = -8.0, depth = 8
iter = 9718, queue = 13666, heur = -8.0, depth = 8
iter = 9719, queue = 13668, heur = -8.0, depth = 8
iter = 9720, queue = 13669, heur = -8.0, depth = 8
iter = 9721, queue = 13670, heur = -8.0, depth = 8
iter = 9722, queue = 13669, heur = -8.0, depth = 9
iter = 9723, queue = 13672, heur = -8.0, depth = 10
iter = 9724, queue = 13673, heur = -8.0, depth = 8
iter = 9725, queue = 13672, heur = -8.0, depth = 8
iter = 9726, queue = 13675, heur = -8.0, depth = 8
iter = 9727, queue = 13678, heur = -8.0, depth = 8
iter = 9728, queue = 13679, heur = -8.0, depth = 8
iter = 9729, queue = 13682, heur = -8.0, depth = 8
iter = 9730, queue = 13683, heur = -8.0, depth = 8
iter = 9731, queue = 13684, heur = -8.0, depth = 8
iter = 9732, queue = 13687, heur = -8.0, depth = 8
iter = 9733, queue = 13689, heur = -8.0, depth = 8
iter = 9734, queue = 13692, heur = -8.0, depth = 8
iter = 9735, queue = 13693, heur = -8.0, depth = 8
iter = 9736, queue = 13694, heur = -8.0, depth = 8
iter = 9737, queue = 13696, heur = -8.0, depth = 8
```

```
iter = 9738, queue = 13697, heur = -8.0, depth = 8
iter = 9739, queue = 13699, heur = -8.0, depth = 9
iter = 9740, queue = 13699, heur = -8.0, depth = 8
iter = 9741, queue = 13698, heur = -8.0, depth = 8
iter = 9742, queue = 13701, heur = -8.0, depth = 8
iter = 9743, queue = 13702, heur = -8.0, depth = 8
iter = 9744, queue = 13701, heur = -8.0, depth = 8
iter = 9745, queue = 13703, heur = -8.0, depth = 8
iter = 9746, queue = 13705, heur = -8.0, depth = 8
iter = 9747, queue = 13708, heur = -8.0, depth = 8
iter = 9748, queue = 13710, heur = -8.0, depth = 8
iter = 9749, queue = 13713, heur = -8.0, depth = 8
iter = 9750, queue = 13715, heur = -8.0, depth = 8
iter = 9751, queue = 13716, heur = -8.0, depth = 8
iter = 9752, queue = 13717, heur = -8.0, depth = 8
iter = 9753, queue = 13718, heur = -8.0, depth = 8
iter = 9754, queue = 13719, heur = -8.0, depth = 8
iter = 9755, queue = 13718, heur = -8.0, depth = 8
iter = 9756, queue = 13719, heur = -8.0, depth = 8
iter = 9757, queue = 13720, heur = -8.0, depth = 8
iter = 9758, queue = 13721, heur = -8.0, depth = 8
iter = 9759, queue = 13724, heur = -8.0, depth = 8
iter = 9760, queue = 13725, heur = -8.0, depth = 8
iter = 9761, queue = 13727, heur = -8.0, depth = 8
iter = 9762, queue = 13730, heur = -8.0, depth = 8
iter = 9763, queue = 13733, heur = -8.0, depth = 8
iter = 9764, queue = 13732, heur = -8.0, depth = 8
iter = 9765, queue = 13733, heur = -8.0, depth = 8
iter = 9766, queue = 13734, heur = -8.0, depth = 8
iter = 9767, queue = 13737, heur = -8.0, depth = 8
iter = 9768, queue = 13740, heur = -8.0, depth = 8
iter = 9769, queue = 13741, heur = -8.0, depth = 8
iter = 9770, queue = 13742, heur = -8.0, depth = 8
iter = 9771, queue = 13741, heur = -8.0, depth = 8
iter = 9772, queue = 13744, heur = -8.0, depth = 8
iter = 9773, queue = 13745, heur = -8.0, depth = 8
iter = 9774, queue = 13747, heur = -8.0, depth = 8
iter = 9775, queue = 13748, heur = -8.0, depth = 8
iter = 9776, queue = 13749, heur = -8.0, depth = 8
iter = 9777, queue = 13750, heur = -8.0, depth = 8
iter = 9778, queue = 13751, heur = -8.0, depth = 8
iter = 9779, queue = 13752, heur = -8.0, depth = 8
iter = 9780, queue = 13755, heur = -8.0, depth = 8
iter = 9781, queue = 13758, heur = -8.0, depth = 8
iter = 9782, queue = 13760, heur = -8.0, depth = 8
iter = 9783, queue = 13761, heur = -8.0, depth = 8
iter = 9784, queue = 13764, heur = -8.0, depth = 8
iter = 9785, queue = 13765, heur = -8.0, depth = 8
iter = 9786, queue = 13768, heur = -8.0, depth = 8
iter = 9787, queue = 13771, heur = -8.0, depth = 8
iter = 9788, queue = 13774, heur = -8.0, depth = 8
iter = 9789, queue = 13776, heur = -8.0, depth = 8
iter = 9790, queue = 13777, heur = -8.0, depth = 8
iter = 9791, queue = 13776, heur = -8.0, depth = 8
iter = 9792, queue = 13775, heur = -8.0, depth = 8
iter = 9793, queue = 13776, heur = -8.0, depth = 8
iter = 9794, queue = 13777, heur = -8.0, depth = 8
iter = 9795, queue = 13778, heur = -8.0, depth = 8
iter = 9796, queue = 13781, heur = -8.0, depth = 8
```

```
iter = 9797, queue = 13782, heur = -8.0, depth = 8
iter = 9798, queue = 13783, heur = -8.0, depth = 8
iter = 9799, queue = 13784, heur = -8.0, depth = 8
iter = 9800, queue = 13785, heur = -8.0, depth = 8
iter = 9801, queue = 13786, heur = -8.0, depth = 8
iter = 9802, queue = 13787, heur = -8.0, depth = 8
iter = 9803, queue = 13790, heur = -8.0, depth = 8
iter = 9804, queue = 13791, heur = -8.0, depth = 8
iter = 9805, queue = 13792, heur = -8.0, depth = 8
iter = 9806, queue = 13793, heur = -8.0, depth = 8
iter = 9807, queue = 13792, heur = -8.0, depth = 8
iter = 9808, queue = 13794, heur = -8.0, depth = 8
iter = 9809, queue = 13795, heur = -8.0, depth = 8
iter = 9810, queue = 13798, heur = -8.0, depth = 8
iter = 9811, queue = 13799, heur = -8.0, depth = 8
iter = 9812, queue = 13802, heur = -8.0, depth = 8
iter = 9813, queue = 13804, heur = -8.0, depth = 8
iter = 9814, queue = 13807, heur = -8.0, depth = 8
iter = 9815, queue = 13808, heur = -8.0, depth = 8
iter = 9816, queue = 13810, heur = -8.0, depth = 8
iter = 9817, queue = 13811, heur = -8.0, depth = 8
iter = 9818, queue = 13812, heur = -8.0, depth = 8
iter = 9819, queue = 13811, heur = -8.0, depth = 8
iter = 9820, queue = 13814, heur = -8.0, depth = 8
iter = 9821, queue = 13815, heur = -8.0, depth = 8
iter = 9822, queue = 13816, heur = -8.0, depth = 8
iter = 9823, queue = 13819, heur = -8.0, depth = 8
iter = 9824, queue = 13818, heur = -8.0, depth = 8
iter = 9825, queue = 13821, heur = -8.0, depth = 8
iter = 9826, queue = 13821, heur = -8.0, depth = 8
iter = 9827, queue = 13822, heur = -8.0, depth = 8
iter = 9828, queue = 13823, heur = -8.0, depth = 8
iter = 9829, queue = 13824, heur = -8.0, depth = 8
iter = 9830, queue = 13826, heur = -8.0, depth = 8
iter = 9831, queue = 13825, heur = -8.0, depth = 8
iter = 9832, queue = 13828, heur = -8.0, depth = 8
iter = 9833, queue = 13831, heur = -8.0, depth = 8
iter = 9834, queue = 13832, heur = -8.0, depth = 8
iter = 9835, queue = 13835, heur = -8.0, depth = 8
iter = 9836, queue = 13836, heur = -8.0, depth = 8
iter = 9837, queue = 13837, heur = -8.0, depth = 8
iter = 9838, queue = 13836, heur = -8.0, depth = 8
iter = 9839, queue = 13837, heur = -8.0, depth = 8
iter = 9840, queue = 13838, heur = -8.0, depth = 8
iter = 9841, queue = 13840, heur = -8.0, depth = 8
iter = 9842, queue = 13841, heur = -8.0, depth = 8
iter = 9843, queue = 13844, heur = -8.0, depth = 8
iter = 9844, queue = 13847, heur = -8.0, depth = 8
iter = 9845, queue = 13848, heur = -8.0, depth = 8
iter = 9846, queue = 13849, heur = -8.0, depth = 9
iter = 9847, queue = 13852, heur = -8.0, depth = 9
iter = 9848, queue = 13852, heur = -8.0, depth = 8
iter = 9849, queue = 13852, heur = -8.0, depth = 9
iter = 9850, queue = 13854, heur = -8.0, depth = 8
iter = 9851, queue = 13855, heur = -8.0, depth = 8
iter = 9852, queue = 13857, heur = -8.0, depth = 8
iter = 9853, queue = 13858, heur = -8.0, depth = 8
iter = 9854, queue = 13858, heur = -8.0, depth = 8
iter = 9855, queue = 13860, heur = -8.0, depth = 8
```

```
iter = 9856, queue = 13862, heur = -8.0, depth = 8
iter = 9857, queue = 13862, heur = -8.0, depth = 8
iter = 9858, queue = 13863, heur = -8.0, depth = 8
iter = 9859, queue = 13864, heur = -8.0, depth = 8
iter = 9860, queue = 13865, heur = -8.0, depth = 8
iter = 9861, queue = 13865, heur = -8.0, depth = 8
iter = 9862, queue = 13866, heur = -8.0, depth = 8
iter = 9863, queue = 13869, heur = -8.0, depth = 8
iter = 9864, queue = 13872, heur = -8.0, depth = 8
iter = 9865, queue = 13873, heur = -8.0, depth = 8
iter = 9866, queue = 13876, heur = -8.0, depth = 8
iter = 9867, queue = 13876, heur = -8.0, depth = 8
iter = 9868, queue = 13877, heur = -8.0, depth = 8
iter = 9869, queue = 13878, heur = -8.0, depth = 8
iter = 9870, queue = 13881, heur = -8.0, depth = 8
iter = 9871, queue = 13882, heur = -8.0, depth = 8
iter = 9872, queue = 13884, heur = -8.0, depth = 8
iter = 9873, queue = 13885, heur = -8.0, depth = 8
iter = 9874, queue = 13886, heur = -8.0, depth = 8
iter = 9875, queue = 13887, heur = -8.0, depth = 8
iter = 9876, queue = 13890, heur = -8.0, depth = 8
iter = 9877, queue = 13890, heur = -8.0, depth = 8
iter = 9878, queue = 13891, heur = -8.0, depth = 8
iter = 9879, queue = 13892, heur = -8.0, depth = 8
iter = 9880, queue = 13893, heur = -8.0, depth = 8
iter = 9881, queue = 13894, heur = -8.0, depth = 8
iter = 9882, queue = 13895, heur = -8.0, depth = 8
iter = 9883, queue = 13896, heur = -8.0, depth = 8
iter = 9884, queue = 13895, heur = -8.0, depth = 8
iter = 9885, queue = 13897, heur = -8.0, depth = 8
iter = 9886, queue = 13900, heur = -8.0, depth = 8
iter = 9887, queue = 13901, heur = -8.0, depth = 8
iter = 9888, queue = 13902, heur = -8.0, depth = 8
iter = 9889, queue = 13903, heur = -8.0, depth = 8
iter = 9890, queue = 13904, heur = -8.0, depth = 8
iter = 9891, queue = 13905, heur = -8.0, depth = 8
iter = 9892, queue = 13907, heur = -8.0, depth = 8
iter = 9893, queue = 13908, heur = -8.0, depth = 8
iter = 9894, queue = 13908, heur = -8.0, depth = 8
iter = 9895, queue = 13911, heur = -8.0, depth = 8
iter = 9896, queue = 13912, heur = -8.0, depth = 8
iter = 9897, queue = 13913, heur = -8.0, depth = 8
iter = 9898, queue = 13914, heur = -8.0, depth = 8
iter = 9899, queue = 13915, heur = -8.0, depth = 8
iter = 9900, queue = 13916, heur = -8.0, depth = 8
iter = 9901, queue = 13917, heur = -8.0, depth = 8
iter = 9902, queue = 13917, heur = -8.0, depth = 8
iter = 9903, queue = 13918, heur = -8.0, depth = 8
iter = 9904, queue = 13919, heur = -8.0, depth = 8
iter = 9905, queue = 13918, heur = -8.0, depth = 8
iter = 9906, queue = 13919, heur = -8.0, depth = 8
iter = 9907, queue = 13920, heur = -8.0, depth = 8
iter = 9908, queue = 13921, heur = -8.0, depth = 8
iter = 9909, queue = 13920, heur = -8.0, depth = 8
iter = 9910, queue = 13919, heur = -8.0, depth = 8
iter = 9911, queue = 13920, heur = -8.0, depth = 8
iter = 9912, queue = 13921, heur = -8.0, depth = 8
iter = 9913, queue = 13922, heur = -8.0, depth = 8
iter = 9914, queue = 13922, heur = -8.0, depth = 8
```

```
iter = 9915, queue = 13925, heur = -8.0, depth = 8
iter = 9916, queue = 13926, heur = -8.0, depth = 8
iter = 9917, queue = 13927, heur = -8.0, depth = 8
iter = 9918, queue = 13929, heur = -8.0, depth = 8
iter = 9919, queue = 13932, heur = -8.0, depth = 8
iter = 9920, queue = 13933, heur = -8.0, depth = 8
iter = 9921, queue = 13934, heur = -8.0, depth = 8
iter = 9922, queue = 13935, heur = -8.0, depth = 8
iter = 9923, queue = 13938, heur = -8.0, depth = 8
iter = 9924, queue = 13940, heur = -8.0, depth = 8
iter = 9925, queue = 13943, heur = -8.0, depth = 8
iter = 9926, queue = 13945, heur = -8.0, depth = 8
iter = 9927, queue = 13946, heur = -8.0, depth = 8
iter = 9928, queue = 13948, heur = -8.0, depth = 8
iter = 9929, queue = 13947, heur = -8.0, depth = 8
iter = 9930, queue = 13948, heur = -8.0, depth = 8
iter = 9931, queue = 13949, heur = -8.0, depth = 8
iter = 9932, queue = 13950, heur = -8.0, depth = 8
iter = 9933, queue = 13949, heur = -8.0, depth = 8
iter = 9934, queue = 13952, heur = -8.0, depth = 8
iter = 9935, queue = 13953, heur = -8.0, depth = 8
iter = 9936, queue = 13955, heur = -8.0, depth = 8
iter = 9937, queue = 13958, heur = -8.0, depth = 8
iter = 9938, queue = 13958, heur = -8.0, depth = 8
iter = 9939, queue = 13957, heur = -8.0, depth = 8
iter = 9940, queue = 13958, heur = -8.0, depth = 8
iter = 9941, queue = 13960, heur = -8.0, depth = 8
iter = 9942, queue = 13962, heur = -8.0, depth = 8
iter = 9943, queue = 13963, heur = -8.0, depth = 8
iter = 9944, queue = 13964, heur = -8.0, depth = 8
iter = 9945, queue = 13963, heur = -8.0, depth = 8
iter = 9946, queue = 13964, heur = -8.0, depth = 8
iter = 9947, queue = 13965, heur = -8.0, depth = 8
iter = 9948, queue = 13968, heur = -8.0, depth = 8
iter = 9949, queue = 13970, heur = -8.0, depth = 8
iter = 9950, queue = 13973, heur = -8.0, depth = 8
iter = 9951, queue = 13976, heur = -8.0, depth = 8
iter = 9952, queue = 13977, heur = -8.0, depth = 8
iter = 9953, queue = 13978, heur = -8.0, depth = 8
iter = 9954, queue = 13978, heur = -8.0, depth = 8
iter = 9955, queue = 13979, heur = -8.0, depth = 8
iter = 9956, queue = 13982, heur = -8.0, depth = 8
iter = 9957, queue = 13983, heur = -8.0, depth = 8
iter = 9958, queue = 13984, heur = -8.0, depth = 8
iter = 9959, queue = 13986, heur = -8.0, depth = 8
iter = 9960, queue = 13989, heur = -8.0, depth = 8
iter = 9961, queue = 13990, heur = -8.0, depth = 8
iter = 9962, queue = 13991, heur = -8.0, depth = 8
iter = 9963, queue = 13994, heur = -8.0, depth = 8
iter = 9964, queue = 13995, heur = -8.0, depth = 8
iter = 9965, queue = 13996, heur = -8.0, depth = 8
iter = 9966, queue = 13997, heur = -8.0, depth = 9
iter = 9967, queue = 13998, heur = -8.0, depth = 8
iter = 9968, queue = 13999, heur = -8.0, depth = 8
iter = 9969, queue = 14002, heur = -8.0, depth = 8
iter = 9970, queue = 14003, heur = -8.0, depth = 8
iter = 9971, queue = 14006, heur = -8.0, depth = 8
iter = 9972, queue = 14007, heur = -8.0, depth = 8
iter = 9973, queue = 14010, heur = -8.0, depth = 8
```

```
iter = 9974, queue = 14010, heur = -8.0, depth = 8
iter = 9975, queue = 14011, heur = -8.0, depth = 8
iter = 9976, queue = 14014, heur = -8.0, depth = 8
iter = 9977, queue = 14013, heur = -8.0, depth = 9
iter = 9978, queue = 14013, heur = -8.0, depth = 8
iter = 9979, queue = 14012, heur = -8.0, depth = 8
iter = 9980, queue = 14013, heur = -8.0, depth = 8
iter = 9981, queue = 14014, heur = -8.0, depth = 8
iter = 9982, queue = 14015, heur = -8.0, depth = 8
iter = 9983, queue = 14016, heur = -8.0, depth = 8
iter = 9984, queue = 14015, heur = -8.0, depth = 8
iter = 9985, queue = 14016, heur = -8.0, depth = 8
iter = 9986, queue = 14016, heur = -8.0, depth = 8
iter = 9987, queue = 14019, heur = -8.0, depth = 8
iter = 9988, queue = 14021, heur = -8.0, depth = 8
iter = 9989, queue = 14022, heur = -8.0, depth = 8
iter = 9990, queue = 14024, heur = -8.0, depth = 8
iter = 9991, queue = 14026, heur = -8.0, depth = 8
iter = 9992, queue = 14029, heur = -8.0, depth = 8
iter = 9993, queue = 14028, heur = -8.0, depth = 8
iter = 9994, queue = 14029, heur = -8.0, depth = 8
iter = 9995, queue = 14030, heur = -8.0, depth = 8
iter = 9996, queue = 14033, heur = -8.0, depth = 8
iter = 9997, queue = 14034, heur = -8.0, depth = 8
iter = 9998, queue = 14037, heur = -8.0, depth = 8
iter = 9999, queue = 14040, heur = -8.0, depth = 8
iter = 10000, queue = 14041, heur = -8.0, depth = 8
iter = 10001, queue = 14043, heur = -8.0, depth = 8
iter = 10002, queue = 14044, heur = -8.0, depth = 8
iter = 10003, queue = 14045, heur = -8.0, depth = 8
iter = 10004, queue = 14048, heur = -8.0, depth = 8
iter = 10005, queue = 14049, heur = -8.0, depth = 8
iter = 10006, queue = 14050, heur = -8.0, depth = 8
iter = 10007, queue = 14051, heur = -8.0, depth = 8
iter = 10008, queue = 14050, heur = -8.0, depth = 8
iter = 10009, queue = 14053, heur = -8.0, depth = 8
iter = 10010, queue = 14054, heur = -8.0, depth = 8
iter = 10011, queue = 14055, heur = -8.0, depth = 8
iter = 10012, queue = 14056, heur = -8.0, depth = 8
iter = 10013, queue = 14058, heur = -8.0, depth = 8
iter = 10014, queue = 14060, heur = -8.0, depth = 8
iter = 10015, queue = 14063, heur = -8.0, depth = 8
iter = 10016, queue = 14064, heur = -8.0, depth = 8
iter = 10017, queue = 14065, heur = -8.0, depth = 8
iter = 10018, queue = 14066, heur = -8.0, depth = 8
iter = 10019, queue = 14067, heur = -8.0, depth = 9
iter = 10020, queue = 14068, heur = -8.0, depth = 8
iter = 10021, queue = 14067, heur = -8.0, depth = 8
iter = 10022, queue = 14067, heur = -8.0, depth = 8
iter = 10023, queue = 14067, heur = -8.0, depth = 8
iter = 10024, queue = 14068, heur = -8.0, depth = 12
iter = 10025, queue = 14069, heur = -8.0, depth = 12
iter = 10026, queue = 14072, heur = -8.0, depth = 8
iter = 10027, queue = 14073, heur = -8.0, depth = 8
iter = 10028, queue = 14074, heur = -8.0, depth = 8
iter = 10029, queue = 14073, heur = -8.0, depth = 12
iter = 10030, queue = 14076, heur = -8.0, depth = 10
iter = 10031, queue = 14077, heur = -8.0, depth = 8
iter = 10032, queue = 14078, heur = -8.0, depth = 8
```

```
iter = 10033, queue = 14081, heur = -8.0, depth = 8
iter = 10034, queue = 14082, heur = -8.0, depth = 8
iter = 10035, queue = 14084, heur = -8.0, depth = 8
iter = 10036, queue = 14087, heur = -8.0, depth = 8
iter = 10037, queue = 14088, heur = -8.0, depth = 8
iter = 10038, queue = 14090, heur = -8.0, depth = 8
iter = 10039, queue = 14093, heur = -8.0, depth = 11
iter = 10040, queue = 14096, heur = -8.0, depth = 11
iter = 10041, queue = 14099, heur = -8.0, depth = 8
iter = 10042, queue = 14100, heur = -8.0, depth = 8
iter = 10043, queue = 14101, heur = -8.0, depth = 8
iter = 10044, queue = 14104, heur = -8.0, depth = 8
iter = 10045, queue = 14105, heur = -8.0, depth = 8
iter = 10046, queue = 14107, heur = -8.0, depth = 8
iter = 10047, queue = 14107, heur = -8.0, depth = 8
iter = 10048, queue = 14110, heur = -8.0, depth = 8
iter = 10049, queue = 14111, heur = -8.0, depth = 8
iter = 10050, queue = 14111, heur = -8.0, depth = 8
iter = 10051, queue = 14112, heur = -8.0, depth = 8
iter = 10052, queue = 14115, heur = -8.0, depth = 8
iter = 10053, queue = 14115, heur = -8.0, depth = 10
iter = 10054, queue = 14117, heur = -8.0, depth = 10
iter = 10055, queue = 14120, heur = -8.0, depth = 8
iter = 10056, queue = 14123, heur = -8.0, depth = 8
iter = 10057, queue = 14122, heur = -8.0, depth = 8
iter = 10058, queue = 14123, heur = -8.0, depth = 8
iter = 10059, queue = 14124, heur = -8.0, depth = 8
iter = 10060, queue = 14127, heur = -8.0, depth = 8
iter = 10061, queue = 14128, heur = -8.0, depth = 8
iter = 10062, queue = 14127, heur = -8.0, depth = 9
iter = 10063, queue = 14129, heur = -8.0, depth = 8
iter = 10064, queue = 14131, heur = -8.0, depth = 9
iter = 10065, queue = 14134, heur = -8.0, depth = 8
iter = 10066, queue = 14135, heur = -8.0, depth = 8
iter = 10067, queue = 14137, heur = -8.0, depth = 8
iter = 10068, queue = 14139, heur = -8.0, depth = 8
iter = 10069, queue = 14140, heur = -8.0, depth = 8
iter = 10070, queue = 14143, heur = -8.0, depth = 8
iter = 10071, queue = 14146, heur = -8.0, depth = 8
iter = 10072, queue = 14149, heur = -8.0, depth = 8
iter = 10073, queue = 14150, heur = -8.0, depth = 8
iter = 10074, queue = 14153, heur = -8.0, depth = 8
iter = 10075, queue = 14152, heur = -8.0, depth = 8
iter = 10076, queue = 14155, heur = -8.0, depth = 8
iter = 10077, queue = 14156, heur = -8.0, depth = 8
iter = 10078, queue = 14159, heur = -8.0, depth = 8
iter = 10079, queue = 14160, heur = -8.0, depth = 8
iter = 10080, queue = 14160, heur = -8.0, depth = 8
iter = 10081, queue = 14159, heur = -8.0, depth = 8
iter = 10082, queue = 14160, heur = -8.0, depth = 8
iter = 10083, queue = 14162, heur = -8.0, depth = 8
iter = 10084, queue = 14161, heur = -8.0, depth = 8
iter = 10085, queue = 14164, heur = -8.0, depth = 8
iter = 10086, queue = 14167, heur = -8.0, depth = 8
iter = 10087, queue = 14170, heur = -8.0, depth = 8
iter = 10088, queue = 14172, heur = -8.0, depth = 8
iter = 10089, queue = 14175, heur = -8.0, depth = 8
iter = 10090, queue = 14177, heur = -8.0, depth = 8
iter = 10091, queue = 14178, heur = -8.0, depth = 8
```

```
iter = 10092, queue = 14179, heur = -8.0, depth = 8
iter = 10093, queue = 14182, heur = -8.0, depth = 9
iter = 10094, queue = 14182, heur = -8.0, depth = 8
iter = 10095, queue = 14183, heur = -8.0, depth = 8
iter = 10096, queue = 14184, heur = -8.0, depth = 8
iter = 10097, queue = 14184, heur = -8.0, depth = 8
iter = 10098, queue = 14186, heur = -8.0, depth = 8
iter = 10099, queue = 14187, heur = -8.0, depth = 8
iter = 10100, queue = 14186, heur = -8.0, depth = 8
iter = 10101, queue = 14187, heur = -8.0, depth = 8
iter = 10102, queue = 14188, heur = -8.0, depth = 8
iter = 10103, queue = 14187, heur = -8.0, depth = 8
iter = 10104, queue = 14189, heur = -8.0, depth = 8
iter = 10105, queue = 14190, heur = -8.0, depth = 8
iter = 10106, queue = 14191, heur = -8.0, depth = 8
iter = 10107, queue = 14193, heur = -8.0, depth = 8
iter = 10108, queue = 14194, heur = -8.0, depth = 8
iter = 10109, queue = 14195, heur = -8.0, depth = 8
iter = 10110, queue = 14198, heur = -8.0, depth = 8
iter = 10111, queue = 14201, heur = -8.0, depth = 8
iter = 10112, queue = 14204, heur = -8.0, depth = 8
iter = 10113, queue = 14206, heur = -8.0, depth = 8
iter = 10114, queue = 14209, heur = -8.0, depth = 8
iter = 10115, queue = 14212, heur = -8.0, depth = 8
iter = 10116, queue = 14213, heur = -8.0, depth = 8
iter = 10117, queue = 14212, heur = -8.0, depth = 8
iter = 10118, queue = 14215, heur = -8.0, depth = 8
iter = 10119, queue = 14214, heur = -8.0, depth = 8
iter = 10120, queue = 14215, heur = -8.0, depth = 8
iter = 10121, queue = 14218, heur = -8.0, depth = 8
iter = 10122, queue = 14221, heur = -8.0, depth = 8
iter = 10123, queue = 14224, heur = -8.0, depth = 8
iter = 10124, queue = 14227, heur = -8.0, depth = 8
iter = 10125, queue = 14228, heur = -8.0, depth = 8
iter = 10126, queue = 14229, heur = -8.0, depth = 8
iter = 10127, queue = 14230, heur = -8.0, depth = 8
iter = 10128, queue = 14229, heur = -8.0, depth = 8
iter = 10129, queue = 14230, heur = -8.0, depth = 8
iter = 10130, queue = 14231, heur = -8.0, depth = 8
iter = 10131, queue = 14234, heur = -8.0, depth = 8
iter = 10132, queue = 14233, heur = -8.0, depth = 8
iter = 10133, queue = 14234, heur = -8.0, depth = 8
iter = 10134, queue = 14236, heur = -8.0, depth = 8
iter = 10135, queue = 14237, heur = -8.0, depth = 8
iter = 10136, queue = 14238, heur = -8.0, depth = 8
iter = 10137, queue = 14241, heur = -8.0, depth = 8
iter = 10138, queue = 14242, heur = -8.0, depth = 8
iter = 10139, queue = 14241, heur = -8.0, depth = 8
iter = 10140, queue = 14240, heur = -8.0, depth = 8
iter = 10141, queue = 14243, heur = -8.0, depth = 8
iter = 10142, queue = 14244, heur = -8.0, depth = 8
iter = 10143, queue = 14245, heur = -8.0, depth = 8
iter = 10144, queue = 14246, heur = -8.0, depth = 8
iter = 10145, queue = 14247, heur = -8.0, depth = 8
iter = 10146, queue = 14250, heur = -8.0, depth = 8
iter = 10147, queue = 14253, heur = -8.0, depth = 8
iter = 10148, queue = 14256, heur = -8.0, depth = 8
iter = 10149, queue = 14258, heur = -8.0, depth = 8
iter = 10150, queue = 14261, heur = -8.0, depth = 8
```

```
iter = 10151, queue = 14262, heur = -8.0, depth = 8
iter = 10152, queue = 14263, heur = -8.0, depth = 8
iter = 10153, queue = 14266, heur = -8.0, depth = 8
iter = 10154, queue = 14268, heur = -8.0, depth = 8
iter = 10155, queue = 14269, heur = -8.0, depth = 8
iter = 10156, queue = 14268, heur = -8.0, depth = 8
iter = 10157, queue = 14271, heur = -8.0, depth = 8
iter = 10158, queue = 14274, heur = -8.0, depth = 8
iter = 10159, queue = 14274, heur = -8.0, depth = 8
iter = 10160, queue = 14277, heur = -8.0, depth = 8
iter = 10161, queue = 14280, heur = -8.0, depth = 8
iter = 10162, queue = 14281, heur = -8.0, depth = 8
iter = 10163, queue = 14282, heur = -8.0, depth = 8
iter = 10164, queue = 14285, heur = -8.0, depth = 8
iter = 10165, queue = 14286, heur = -8.0, depth = 8
iter = 10166, queue = 14287, heur = -8.0, depth = 8
iter = 10167, queue = 14290, heur = -8.0, depth = 8
iter = 10168, queue = 14292, heur = -8.0, depth = 8
iter = 10169, queue = 14294, heur = -8.0, depth = 8
iter = 10170, queue = 14295, heur = -8.0, depth = 8
iter = 10171, queue = 14295, heur = -8.0, depth = 8
iter = 10172, queue = 14297, heur = -8.0, depth = 8
iter = 10173, queue = 14300, heur = -8.0, depth = 8
iter = 10174, queue = 14303, heur = -8.0, depth = 8
iter = 10175, queue = 14304, heur = -8.0, depth = 8
iter = 10176, queue = 14305, heur = -8.0, depth = 8
iter = 10177, queue = 14306, heur = -8.0, depth = 8
iter = 10178, queue = 14307, heur = -8.0, depth = 8
iter = 10179, queue = 14310, heur = -8.0, depth = 8
iter = 10180, queue = 14311, heur = -8.0, depth = 8
iter = 10181, queue = 14312, heur = -8.0, depth = 8
iter = 10182, queue = 14313, heur = -8.0, depth = 8
iter = 10183, queue = 14316, heur = -8.0, depth = 8
iter = 10184, queue = 14319, heur = -8.0, depth = 8
iter = 10185, queue = 14318, heur = -8.0, depth = 8
iter = 10186, queue = 14320, heur = -8.0, depth = 8
iter = 10187, queue = 14320, heur = -8.0, depth = 8
iter = 10188, queue = 14322, heur = -8.0, depth = 8
iter = 10189, queue = 14323, heur = -8.0, depth = 8
iter = 10190, queue = 14324, heur = -8.0, depth = 8
iter = 10191, queue = 14327, heur = -8.0, depth = 8
iter = 10192, queue = 14328, heur = -8.0, depth = 8
iter = 10193, queue = 14329, heur = -8.0, depth = 8
iter = 10194, queue = 14329, heur = -8.0, depth = 8
iter = 10195, queue = 14330, heur = -8.0, depth = 8
iter = 10196, queue = 14333, heur = -8.0, depth = 8
iter = 10197, queue = 14336, heur = -8.0, depth = 8
iter = 10198, queue = 14339, heur = -8.0, depth = 8
iter = 10199, queue = 14342, heur = -8.0, depth = 8
iter = 10200, queue = 14343, heur = -8.0, depth = 8
iter = 10201, queue = 14344, heur = -8.0, depth = 8
iter = 10202, queue = 14345, heur = -8.0, depth = 8
iter = 10203, queue = 14346, heur = -8.0, depth = 8
iter = 10204, queue = 14347, heur = -8.0, depth = 8
iter = 10205, queue = 14348, heur = -8.0, depth = 8
iter = 10206, queue = 14350, heur = -8.0, depth = 8
iter = 10207, queue = 14351, heur = -8.0, depth = 8
iter = 10208, queue = 14354, heur = -8.0, depth = 8
iter = 10209, queue = 14355, heur = -8.0, depth = 8
```

```
iter = 10210, queue = 14357, heur = -8.0, depth = 8
iter = 10211, queue = 14360, heur = -8.0, depth = 8
iter = 10212, queue = 14361, heur = -8.0, depth = 8
iter = 10213, queue = 14362, heur = -8.0, depth = 8
iter = 10214, queue = 14364, heur = -8.0, depth = 8
iter = 10215, queue = 14365, heur = -8.0, depth = 8
iter = 10216, queue = 14368, heur = -8.0, depth = 8
iter = 10217, queue = 14369, heur = -8.0, depth = 8
iter = 10218, queue = 14372, heur = -8.0, depth = 8
iter = 10219, queue = 14375, heur = -8.0, depth = 8
iter = 10220, queue = 14378, heur = -8.0, depth = 8
iter = 10221, queue = 14379, heur = -8.0, depth = 8
iter = 10222, queue = 14380, heur = -8.0, depth = 8
iter = 10223, queue = 14381, heur = -8.0, depth = 8
iter = 10224, queue = 14382, heur = -8.0, depth = 8
iter = 10225, queue = 14383, heur = -8.0, depth = 8
iter = 10226, queue = 14386, heur = -8.0, depth = 8
iter = 10227, queue = 14389, heur = -8.0, depth = 8
iter = 10228, queue = 14392, heur = -8.0, depth = 8
iter = 10229, queue = 14393, heur = -8.0, depth = 8
iter = 10230, queue = 14392, heur = -8.0, depth = 8
iter = 10231, queue = 14394, heur = -8.0, depth = 8
iter = 10232, queue = 14393, heur = -8.0, depth = 8
iter = 10233, queue = 14394, heur = -8.0, depth = 8
iter = 10234, queue = 14395, heur = -8.0, depth = 8
iter = 10235, queue = 14398, heur = -8.0, depth = 8
iter = 10236, queue = 14398, heur = -8.0, depth = 8
iter = 10237, queue = 14397, heur = -8.0, depth = 8
iter = 10238, queue = 14398, heur = -8.0, depth = 8
iter = 10239, queue = 14399, heur = -8.0, depth = 8
iter = 10240, queue = 14400, heur = -8.0, depth = 8
iter = 10241, queue = 14400, heur = -8.0, depth = 8
iter = 10242, queue = 14401, heur = -8.0, depth = 8
iter = 10243, queue = 14400, heur = -8.0, depth = 8
iter = 10244, queue = 14401, heur = -8.0, depth = 8
iter = 10245, queue = 14402, heur = -8.0, depth = 8
iter = 10246, queue = 14403, heur = -8.0, depth = 8
iter = 10247, queue = 14405, heur = -8.0, depth = 8
iter = 10248, queue = 14406, heur = -8.0, depth = 8
iter = 10249, queue = 14406, heur = -8.0, depth = 8
iter = 10250, queue = 14405, heur = -8.0, depth = 8
iter = 10251, queue = 14406, heur = -8.0, depth = 8
iter = 10252, queue = 14407, heur = -8.0, depth = 8
iter = 10253, queue = 14408, heur = -8.0, depth = 8
iter = 10254, queue = 14409, heur = -8.0, depth = 8
iter = 10255, queue = 14408, heur = -8.0, depth = 8
iter = 10256, queue = 14411, heur = -8.0, depth = 8
iter = 10257, queue = 14412, heur = -8.0, depth = 8
iter = 10258, queue = 14413, heur = -8.0, depth = 8
iter = 10259, queue = 14414, heur = -8.0, depth = 8
iter = 10260, queue = 14415, heur = -8.0, depth = 8
iter = 10261, queue = 14417, heur = -8.0, depth = 8
iter = 10262, queue = 14420, heur = -8.0, depth = 8
iter = 10263, queue = 14421, heur = -8.0, depth = 8
iter = 10264, queue = 14424, heur = -8.0, depth = 8
iter = 10265, queue = 14426, heur = -8.0, depth = 8
iter = 10266, queue = 14429, heur = -8.0, depth = 8
iter = 10267, queue = 14428, heur = -8.0, depth = 8
iter = 10268, queue = 14429, heur = -8.0, depth = 8
```

```
iter = 10269, queue = 14430, heur = -8.0, depth = 8
iter = 10270, queue = 14431, heur = -8.0, depth = 8
iter = 10271, queue = 14434, heur = -8.0, depth = 8
iter = 10272, queue = 14436, heur = -8.0, depth = 8
iter = 10273, queue = 14438, heur = -8.0, depth = 9
iter = 10274, queue = 14439, heur = -8.0, depth = 8
iter = 10275, queue = 14440, heur = -8.0, depth = 8
iter = 10276, queue = 14441, heur = -8.0, depth = 8
iter = 10277, queue = 144444, heur = -8.0, depth = 8
iter = 10278, queue = 14446, heur = -8.0, depth = 8
iter = 10279, queue = 14447, heur = -8.0, depth = 8
iter = 10280, queue = 14448, heur = -8.0, depth = 8
iter = 10281, queue = 14450, heur = -8.0, depth = 8
iter = 10282, queue = 14449, heur = -8.0, depth = 8
iter = 10283, queue = 14450, heur = -8.0, depth = 8
iter = 10284, queue = 14453, heur = -8.0, depth = 8
iter = 10285, queue = 14452, heur = -8.0, depth = 8
iter = 10286, queue = 14452, heur = -8.0, depth = 8
iter = 10287, queue = 14453, heur = -8.0, depth = 8
iter = 10288, queue = 14456, heur = -8.0, depth = 8
iter = 10289, queue = 14457, heur = -8.0, depth = 8
iter = 10290, queue = 14460, heur = -8.0, depth = 8
iter = 10291, queue = 14463, heur = -8.0, depth = 8
iter = 10292, queue = 14466, heur = -8.0, depth = 8
iter = 10293, queue = 14467, heur = -8.0, depth = 8
iter = 10294, queue = 14468, heur = -8.0, depth = 8
iter = 10295, queue = 14470, heur = -8.0, depth = 8
iter = 10296, queue = 14472, heur = -8.0, depth = 8
iter = 10297, queue = 14471, heur = -8.0, depth = 8
iter = 10298, queue = 14472, heur = -8.0, depth = 8
iter = 10299, queue = 14473, heur = -8.0, depth = 8
iter = 10300, queue = 14474, heur = -8.0, depth = 8
iter = 10301, queue = 14475, heur = -8.0, depth = 8
iter = 10302, queue = 14474, heur = -8.0, depth = 8
iter = 10303, queue = 14475, heur = -8.0, depth = 8
iter = 10304, queue = 14476, heur = -8.0, depth = 8
iter = 10305, queue = 14477, heur = -8.0, depth = 8
iter = 10306, queue = 14477, heur = -8.0, depth = 8
iter = 10307, queue = 14478, heur = -8.0, depth = 8
iter = 10308, queue = 14479, heur = -8.0, depth = 8
iter = 10309, queue = 14480, heur = -8.0, depth = 8
iter = 10310, queue = 14481, heur = -8.0, depth = 8
iter = 10311, queue = 14482, heur = -8.0, depth = 8
iter = 10312, queue = 14485, heur = -8.0, depth = 8
iter = 10313, queue = 14486, heur = -8.0, depth = 8
iter = 10314, queue = 14487, heur = -8.0, depth = 8
iter = 10315, queue = 14488, heur = -8.0, depth = 8
iter = 10316, queue = 14490, heur = -8.0, depth = 8
iter = 10317, queue = 14490, heur = -8.0, depth = 8
iter = 10318, queue = 14491, heur = -8.0, depth = 8
iter = 10319, queue = 14494, heur = -8.0, depth = 8
iter = 10320, queue = 14496, heur = -8.0, depth = 8
iter = 10321, queue = 14497, heur = -8.0, depth = 8
iter = 10322, queue = 14500, heur = -8.0, depth = 8
iter = 10323, queue = 14503, heur = -8.0, depth = 8
iter = 10324, queue = 14506, heur = -8.0, depth = 8
iter = 10325, queue = 14507, heur = -8.0, depth = 8
iter = 10326, queue = 14510, heur = -8.0, depth = 8
iter = 10327, queue = 14510, heur = -8.0, depth = 8
```

```
iter = 10328, queue = 14511, heur = -8.0, depth = 8
iter = 10329, queue = 14512, heur = -8.0, depth = 8
iter = 10330, queue = 14513, heur = -8.0, depth = 8
iter = 10331, queue = 14514, heur = -8.0, depth = 8
iter = 10332, queue = 14515, heur = -8.0, depth = 8
iter = 10333, queue = 14518, heur = -8.0, depth = 8
iter = 10334, queue = 14519, heur = -8.0, depth = 8
iter = 10335, queue = 14520, heur = -8.0, depth = 8
iter = 10336, queue = 14522, heur = -8.0, depth = 8
iter = 10337, queue = 14525, heur = -8.0, depth = 8
iter = 10338, queue = 14526, heur = -8.0, depth = 8
iter = 10339, queue = 14527, heur = -8.0, depth = 8
iter = 10340, queue = 14530, heur = -8.0, depth = 8
iter = 10341, queue = 14533, heur = -8.0, depth = 8
iter = 10342, queue = 14535, heur = -8.0, depth = 8
iter = 10343, queue = 14536, heur = -8.0, depth = 8
iter = 10344, queue = 14535, heur = -8.0, depth = 8
iter = 10345, queue = 14535, heur = -8.0, depth = 8
iter = 10346, queue = 14535, heur = -8.0, depth = 8
iter = 10347, queue = 14537, heur = -8.0, depth = 8
iter = 10348, queue = 14538, heur = -8.0, depth = 8
iter = 10349, queue = 14540, heur = -8.0, depth = 8
iter = 10350, queue = 14543, heur = -8.0, depth = 8
iter = 10351, queue = 14545, heur = -8.0, depth = 8
iter = 10352, queue = 14546, heur = -8.0, depth = 8
iter = 10353, queue = 14549, heur = -8.0, depth = 8
iter = 10354, queue = 14552, heur = -8.0, depth = 8
iter = 10355, queue = 14555, heur = -8.0, depth = 8
iter = 10356, queue = 14558, heur = -8.0, depth = 8
iter = 10357, queue = 14561, heur = -8.0, depth = 8
iter = 10358, queue = 14562, heur = -8.0, depth = 8
iter = 10359, queue = 14561, heur = -8.0, depth = 8
iter = 10360, queue = 14562, heur = -8.0, depth = 8
iter = 10361, queue = 14564, heur = -8.0, depth = 8
iter = 10362, queue = 14567, heur = -8.0, depth = 8
iter = 10363, queue = 14567, heur = -8.0, depth = 8
iter = 10364, queue = 14568, heur = -8.0, depth = 8
iter = 10365, queue = 14569, heur = -8.0, depth = 8
iter = 10366, queue = 14572, heur = -8.0, depth = 8
iter = 10367, queue = 14573, heur = -8.0, depth = 8
iter = 10368, queue = 14576, heur = -8.0, depth = 8
iter = 10369, queue = 14577, heur = -8.0, depth = 8
iter = 10370, queue = 14580, heur = -8.0, depth = 8
iter = 10371, queue = 14581, heur = -8.0, depth = 8
iter = 10372, queue = 14582, heur = -8.0, depth = 8
iter = 10373, queue = 14583, heur = -8.0, depth = 8
iter = 10374, queue = 14585, heur = -8.0, depth = 8
iter = 10375, queue = 14587, heur = -8.0, depth = 8
iter = 10376, queue = 14587, heur = -8.0, depth = 8
iter = 10377, queue = 14588, heur = -8.0, depth = 8
iter = 10378, queue = 14589, heur = -8.0, depth = 8
iter = 10379, queue = 14591, heur = -8.0, depth = 8
iter = 10380, queue = 14592, heur = -8.0, depth = 8
iter = 10381, queue = 14595, heur = -8.0, depth = 8
iter = 10382, queue = 14598, heur = -8.0, depth = 8
iter = 10383, queue = 14599, heur = -8.0, depth = 8
iter = 10384, queue = 14600, heur = -8.0, depth = 8
iter = 10385, queue = 14602, heur = -8.0, depth = 8
iter = 10386, queue = 14602, heur = -8.0, depth = 8
```

```
iter = 10387, queue = 14603, heur = -8.0, depth = 8
iter = 10388, queue = 14606, heur = -8.0, depth = 8
iter = 10389, queue = 14609, heur = -8.0, depth = 8
iter = 10390, queue = 14610, heur = -8.0, depth = 8
iter = 10391, queue = 14610, heur = -8.0, depth = 8
iter = 10392, queue = 14613, heur = -8.0, depth = 8
iter = 10393, queue = 14614, heur = -8.0, depth = 8
iter = 10394, queue = 14615, heur = -8.0, depth = 8
iter = 10395, queue = 14618, heur = -8.0, depth = 8
iter = 10396, queue = 14618, heur = -8.0, depth = 8
iter = 10397, queue = 14621, heur = -8.0, depth = 8
iter = 10398, queue = 14624, heur = -8.0, depth = 8
iter = 10399, queue = 14626, heur = -8.0, depth = 8
iter = 10400, queue = 14627, heur = -8.0, depth = 8
iter = 10401, queue = 14630, heur = -8.0, depth = 8
iter = 10402, queue = 14632, heur = -8.0, depth = 8
iter = 10403, queue = 14632, heur = -8.0, depth = 8
iter = 10404, queue = 14632, heur = -8.0, depth = 8
iter = 10405, queue = 14633, heur = -8.0, depth = 8
iter = 10406, queue = 14635, heur = -8.0, depth = 8
iter = 10407, queue = 14638, heur = -8.0, depth = 8
iter = 10408, queue = 14640, heur = -8.0, depth = 9
iter = 10409, queue = 14641, heur = -8.0, depth = 8
iter = 10410, queue = 14642, heur = -8.0, depth = 8
iter = 10411, queue = 14644, heur = -8.0, depth = 8
iter = 10412, queue = 14644, heur = -8.0, depth = 8
iter = 10413, queue = 14645, heur = -8.0, depth = 8
iter = 10414, queue = 14648, heur = -8.0, depth = 8
iter = 10415, queue = 14651, heur = -8.0, depth = 8
iter = 10416, queue = 14651, heur = -8.0, depth = 8
iter = 10417, queue = 14654, heur = -8.0, depth = 8
iter = 10418, queue = 14655, heur = -8.0, depth = 8
iter = 10419, queue = 14658, heur = -8.0, depth = 8
iter = 10420, queue = 14659, heur = -8.0, depth = 8
iter = 10421, queue = 14660, heur = -8.0, depth = 8
iter = 10422, queue = 14662, heur = -8.0, depth = 8
iter = 10423, queue = 14665, heur = -8.0, depth = 8
iter = 10424, queue = 14666, heur = -8.0, depth = 8
iter = 10425, queue = 14669, heur = -8.0, depth = 8
iter = 10426, queue = 14672, heur = -8.0, depth = 8
iter = 10427, queue = 14673, heur = -8.0, depth = 8
iter = 10428, queue = 14674, heur = -8.0, depth = 8
iter = 10429, queue = 14676, heur = -8.0, depth = 8
iter = 10430, queue = 14677, heur = -8.0, depth = 8
iter = 10431, queue = 14680, heur = -8.0, depth = 8
iter = 10432, queue = 14683, heur = -8.0, depth = 8
iter = 10433, queue = 14682, heur = -8.0, depth = 8
iter = 10434, queue = 14684, heur = -8.0, depth = 8
iter = 10435, queue = 14684, heur = -8.0, depth = 8
iter = 10436, queue = 14686, heur = -8.0, depth = 8
iter = 10437, queue = 14685, heur = -8.0, depth = 8
iter = 10438, queue = 14686, heur = -8.0, depth = 8
iter = 10439, queue = 14688, heur = -8.0, depth = 8
iter = 10440, queue = 14691, heur = -8.0, depth = 8
iter = 10441, queue = 14694, heur = -8.0, depth = 8
iter = 10442, queue = 14695, heur = -8.0, depth = 8
iter = 10443, queue = 14696, heur = -8.0, depth = 8
iter = 10444, queue = 14695, heur = -8.0, depth = 8
iter = 10445, queue = 14696, heur = -8.0, depth = 8
```

```
iter = 10446, queue = 14699, heur = -8.0, depth = 8
iter = 10447, queue = 14701, heur = -8.0, depth = 8
iter = 10448, queue = 14702, heur = -8.0, depth = 8
iter = 10449, queue = 14701, heur = -8.0, depth = 8
iter = 10450, queue = 14702, heur = -8.0, depth = 8
iter = 10451, queue = 14703, heur = -8.0, depth = 8
iter = 10452, queue = 14705, heur = -8.0, depth = 8
iter = 10453, queue = 14706, heur = -8.0, depth = 8
iter = 10454, queue = 14706, heur = -8.0, depth = 8
iter = 10455, queue = 14707, heur = -8.0, depth = 8
iter = 10456, queue = 14708, heur = -8.0, depth = 8
iter = 10457, queue = 14709, heur = -8.0, depth = 8
iter = 10458, queue = 14710, heur = -8.0, depth = 8
iter = 10459, queue = 14712, heur = -8.0, depth = 8
iter = 10460, queue = 14713, heur = -8.0, depth = 8
iter = 10461, queue = 14715, heur = -8.0, depth = 8
iter = 10462, queue = 14716, heur = -8.0, depth = 8
iter = 10463, queue = 14717, heur = -8.0, depth = 8
iter = 10464, queue = 14718, heur = -8.0, depth = 8
iter = 10465, queue = 14719, heur = -8.0, depth = 8
iter = 10466, queue = 14720, heur = -8.0, depth = 8
iter = 10467, queue = 14723, heur = -8.0, depth = 8
iter = 10468, queue = 14726, heur = -8.0, depth = 8
iter = 10469, queue = 14726, heur = -8.0, depth = 8
iter = 10470, queue = 14729, heur = -8.0, depth = 8
iter = 10471, queue = 14731, heur = -8.0, depth = 8
iter = 10472, queue = 14734, heur = -8.0, depth = 8
iter = 10473, queue = 14734, heur = -8.0, depth = 8
iter = 10474, queue = 14735, heur = -8.0, depth = 8
iter = 10475, queue = 14736, heur = -8.0, depth = 8
iter = 10476, queue = 14737, heur = -8.0, depth = 8
iter = 10477, queue = 14738, heur = -8.0, depth = 8
iter = 10478, queue = 14738, heur = -8.0, depth = 8
iter = 10479, queue = 14740, heur = -8.0, depth = 8
iter = 10480, queue = 14741, heur = -8.0, depth = 8
iter = 10481, queue = 14743, heur = -8.0, depth = 8
iter = 10482, queue = 14743, heur = -8.0, depth = 8
iter = 10483, queue = 14744, heur = -8.0, depth = 8
iter = 10484, queue = 14744, heur = -8.0, depth = 8
iter = 10485, queue = 14744, heur = -8.0, depth = 8
iter = 10486, queue = 14747, heur = -8.0, depth = 8
iter = 10487, queue = 14747, heur = -8.0, depth = 8
iter = 10488, queue = 14748, heur = -8.0, depth = 8
iter = 10489, queue = 14749, heur = -8.0, depth = 8
iter = 10490, queue = 14752, heur = -8.0, depth = 8
iter = 10491, queue = 14755, heur = -8.0, depth = 8
iter = 10492, queue = 14756, heur = -8.0, depth = 8
iter = 10493, queue = 14756, heur = -8.0, depth = 8
iter = 10494, queue = 14757, heur = -8.0, depth = 8
iter = 10495, queue = 14758, heur = -8.0, depth = 8
iter = 10496, queue = 14760, heur = -8.0, depth = 8
iter = 10497, queue = 14762, heur = -8.0, depth = 8
iter = 10498, queue = 14764, heur = -8.0, depth = 8
iter = 10499, queue = 14765, heur = -8.0, depth = 8
iter = 10500, queue = 14766, heur = -8.0, depth = 8
iter = 10501, queue = 14766, heur = -8.0, depth = 8
iter = 10502, queue = 14769, heur = -8.0, depth = 8
iter = 10503, queue = 14768, heur = -8.0, depth = 8
iter = 10504, queue = 14770, heur = -8.0, depth = 8
```

```
iter = 10505, queue = 14770, heur = -8.0, depth = 8
iter = 10506, queue = 14770, heur = -8.0, depth = 8
iter = 10507, queue = 14773, heur = -8.0, depth = 8
iter = 10508, queue = 14775, heur = -8.0, depth = 8
iter = 10509, queue = 14778, heur = -8.0, depth = 8
iter = 10510, queue = 14779, heur = -8.0, depth = 8
iter = 10511, queue = 14778, heur = -8.0, depth = 8
iter = 10512, queue = 14778, heur = -8.0, depth = 8
iter = 10513, queue = 14781, heur = -8.0, depth = 8
iter = 10514, queue = 14782, heur = -8.0, depth = 8
iter = 10515, queue = 14783, heur = -8.0, depth = 8
iter = 10516, queue = 14786, heur = -8.0, depth = 8
iter = 10517, queue = 14787, heur = -8.0, depth = 8
iter = 10518, queue = 14790, heur = -8.0, depth = 8
iter = 10519, queue = 14793, heur = -8.0, depth = 8
iter = 10520, queue = 14795, heur = -8.0, depth = 8
iter = 10521, queue = 14796, heur = -8.0, depth = 8
iter = 10522, queue = 14796, heur = -8.0, depth = 8
iter = 10523, queue = 14797, heur = -8.0, depth = 8
iter = 10524, queue = 14800, heur = -8.0, depth = 8
iter = 10525, queue = 14799, heur = -8.0, depth = 8
iter = 10526, queue = 14801, heur = -8.0, depth = 8
iter = 10527, queue = 14802, heur = -8.0, depth = 8
iter = 10528, queue = 14801, heur = -8.0, depth = 8
iter = 10529, queue = 14804, heur = -8.0, depth = 8
iter = 10530, queue = 14806, heur = -8.0, depth = 8
iter = 10531, queue = 14807, heur = -8.0, depth = 8
iter = 10532, queue = 14810, heur = -8.0, depth = 8
iter = 10533, queue = 14813, heur = -8.0, depth = 8
iter = 10534, queue = 14814, heur = -8.0, depth = 8
iter = 10535, queue = 14813, heur = -8.0, depth = 8
iter = 10536, queue = 14816, heur = -8.0, depth = 8
iter = 10537, queue = 14817, heur = -8.0, depth = 8
iter = 10538, queue = 14820, heur = -8.0, depth = 8
iter = 10539, queue = 14823, heur = -8.0, depth = 8
iter = 10540, queue = 14825, heur = -8.0, depth = 8
iter = 10541, queue = 14825, heur = -8.0, depth = 8
iter = 10542, queue = 14828, heur = -8.0, depth = 8
iter = 10543, queue = 14831, heur = -8.0, depth = 8
iter = 10544, queue = 14834, heur = -8.0, depth = 8
iter = 10545, queue = 14836, heur = -8.0, depth = 8
iter = 10546, queue = 14838, heur = -8.0, depth = 8
iter = 10547, queue = 14839, heur = -8.0, depth = 8
iter = 10548, queue = 14840, heur = -8.0, depth = 8
iter = 10549, queue = 14842, heur = -8.0, depth = 8
iter = 10550, queue = 14845, heur = -8.0, depth = 8
iter = 10551, queue = 14848, heur = -8.0, depth = 8
iter = 10552, queue = 14847, heur = -8.0, depth = 8
iter = 10553, queue = 14848, heur = -8.0, depth = 8
iter = 10554, queue = 14850, heur = -8.0, depth = 8
iter = 10555, queue = 14853, heur = -8.0, depth = 8
iter = 10556, queue = 14854, heur = -8.0, depth = 8
iter = 10557, queue = 14857, heur = -8.0, depth = 8
iter = 10558, queue = 14856, heur = -8.0, depth = 8
iter = 10559, queue = 14856, heur = -8.0, depth = 8
iter = 10560, queue = 14857, heur = -8.0, depth = 8
iter = 10561, queue = 14860, heur = -8.0, depth = 8
iter = 10562, queue = 14861, heur = -8.0, depth = 8
iter = 10563, queue = 14864, heur = -8.0, depth = 8
```

```
iter = 10564, queue = 14867, heur = -8.0, depth = 8
iter = 10565, queue = 14870, heur = -8.0, depth = 8
iter = 10566, queue = 14869, heur = -8.0, depth = 8
iter = 10567, queue = 14871, heur = -8.0, depth = 8
iter = 10568, queue = 14874, heur = -8.0, depth = 8
iter = 10569, queue = 14874, heur = -8.0, depth = 8
iter = 10570, queue = 14875, heur = -8.0, depth = 8
iter = 10571, queue = 14874, heur = -8.0, depth = 8
iter = 10572, queue = 14875, heur = -8.0, depth = 8
iter = 10573, queue = 14876, heur = -8.0, depth = 8
iter = 10574, queue = 14879, heur = -8.0, depth = 8
iter = 10575, queue = 14880, heur = -8.0, depth = 8
iter = 10576, queue = 14882, heur = -8.0, depth = 8
iter = 10577, queue = 14882, heur = -8.0, depth = 8
iter = 10578, queue = 14883, heur = -8.0, depth = 8
iter = 10579, queue = 14884, heur = -8.0, depth = 8
iter = 10580, queue = 14887, heur = -8.0, depth = 8
iter = 10581, queue = 14887, heur = -8.0, depth = 8
iter = 10582, queue = 14887, heur = -8.0, depth = 8
iter = 10583, queue = 14889, heur = -8.0, depth = 8
iter = 10584, queue = 14891, heur = -8.0, depth = 8
iter = 10585, queue = 14892, heur = -8.0, depth = 8
iter = 10586, queue = 14891, heur = -8.0, depth = 8
iter = 10587, queue = 14892, heur = -8.0, depth = 8
iter = 10588, queue = 14895, heur = -8.0, depth = 8
iter = 10589, queue = 14897, heur = -8.0, depth = 8
iter = 10590, queue = 14898, heur = -8.0, depth = 8
iter = 10591, queue = 14899, heur = -8.0, depth = 8
iter = 10592, queue = 14900, heur = -8.0, depth = 8
iter = 10593, queue = 14901, heur = -8.0, depth = 8
iter = 10594, queue = 14903, heur = -8.0, depth = 8
iter = 10595, queue = 14906, heur = -8.0, depth = 8
iter = 10596, queue = 14907, heur = -8.0, depth = 8
iter = 10597, queue = 14908, heur = -8.0, depth = 8
iter = 10598, queue = 14908, heur = -8.0, depth = 8
iter = 10599, queue = 14909, heur = -8.0, depth = 8
iter = 10600, queue = 14912, heur = -8.0, depth = 8
iter = 10601, queue = 14915, heur = -8.0, depth = 8
iter = 10602, queue = 14917, heur = -8.0, depth = 8
iter = 10603, queue = 14917, heur = -8.0, depth = 8
iter = 10604, queue = 14919, heur = -8.0, depth = 8
iter = 10605, queue = 14920, heur = -8.0, depth = 8
iter = 10606, queue = 14921, heur = -8.0, depth = 8
iter = 10607, queue = 14924, heur = -8.0, depth = 8
iter = 10608, queue = 14925, heur = -8.0, depth = 8
iter = 10609, queue = 14928, heur = -8.0, depth = 8
iter = 10610, queue = 14931, heur = -8.0, depth = 8
iter = 10611, queue = 14931, heur = -8.0, depth = 8
iter = 10612, queue = 14934, heur = -8.0, depth = 8
iter = 10613, queue = 14935, heur = -8.0, depth = 8
iter = 10614, queue = 14934, heur = -8.0, depth = 8
iter = 10615, queue = 14934, heur = -8.0, depth = 8
iter = 10616, queue = 14935, heur = -8.0, depth = 8
iter = 10617, queue = 14937, heur = -8.0, depth = 8
iter = 10618, queue = 14939, heur = -8.0, depth = 8
iter = 10619, queue = 14938, heur = -8.0, depth = 8
iter = 10620, queue = 14941, heur = -8.0, depth = 8
iter = 10621, queue = 14944, heur = -8.0, depth = 8
iter = 10622, queue = 14947, heur = -8.0, depth = 8
```

```
iter = 10623, queue = 14950, heur = -8.0, depth = 8
iter = 10624, queue = 14951, heur = -8.0, depth = 8
iter = 10625, queue = 14954, heur = -8.0, depth = 8
iter = 10626, queue = 14953, heur = -8.0, depth = 8
iter = 10627, queue = 14953, heur = -8.0, depth = 8
iter = 10628, queue = 14954, heur = -8.0, depth = 8
iter = 10629, queue = 14955, heur = -8.0, depth = 9
iter = 10630, queue = 14955, heur = -8.0, depth = 8
iter = 10631, queue = 14956, heur = -8.0, depth = 8
iter = 10632, queue = 14956, heur = -8.0, depth = 8
iter = 10633, queue = 14957, heur = -8.0, depth = 8
iter = 10634, queue = 14960, heur = -8.0, depth = 8
iter = 10635, queue = 14961, heur = -8.0, depth = 8
iter = 10636, queue = 14962, heur = -8.0, depth = 8
iter = 10637, queue = 14965, heur = -8.0, depth = 8
iter = 10638, queue = 14966, heur = -8.0, depth = 8
iter = 10639, queue = 14967, heur = -8.0, depth = 8
iter = 10640, queue = 14970, heur = -8.0, depth = 8
iter = 10641, queue = 14971, heur = -8.0, depth = 8
iter = 10642, queue = 14972, heur = -8.0, depth = 8
iter = 10643, queue = 14975, heur = -8.0, depth = 9
iter = 10644, queue = 14976, heur = -8.0, depth = 8
iter = 10645, queue = 14979, heur = -8.0, depth = 8
iter = 10646, queue = 14980, heur = -8.0, depth = 8
iter = 10647, queue = 14980, heur = -8.0, depth = 8
iter = 10648, queue = 14982, heur = -8.0, depth = 8
iter = 10649, queue = 14984, heur = -8.0, depth = 8
iter = 10650, queue = 14985, heur = -8.0, depth = 8
iter = 10651, queue = 14988, heur = -8.0, depth = 8
iter = 10652, queue = 14989, heur = -8.0, depth = 8
iter = 10653, queue = 14989, heur = -8.0, depth = 8
iter = 10654, queue = 14990, heur = -8.0, depth = 8
iter = 10655, queue = 14990, heur = -8.0, depth = 8
iter = 10656, queue = 14991, heur = -8.0, depth = 8
iter = 10657, queue = 14994, heur = -8.0, depth = 8
iter = 10658, queue = 14996, heur = -8.0, depth = 8
iter = 10659, queue = 14999, heur = -8.0, depth = 8
iter = 10660, queue = 14998, heur = -8.0, depth = 8
iter = 10661, queue = 14998, heur = -8.0, depth = 8
iter = 10662, queue = 14999, heur = -8.0, depth = 8
iter = 10663, queue = 15002, heur = -8.0, depth = 8
iter = 10664, queue = 15005, heur = -8.0, depth = 8
iter = 10665, queue = 15008, heur = -8.0, depth = 8
iter = 10666, queue = 15009, heur = -8.0, depth = 8
iter = 10667, queue = 15010, heur = -8.0, depth = 8
iter = 10668, queue = 15012, heur = -8.0, depth = 8
iter = 10669, queue = 15013, heur = -8.0, depth = 8
iter = 10670, queue = 15015, heur = -8.0, depth = 8
iter = 10671, queue = 15017, heur = -8.0, depth = 8
iter = 10672, queue = 15019, heur = -8.0, depth = 8
iter = 10673, queue = 15019, heur = -8.0, depth = 8
iter = 10674, queue = 15022, heur = -8.0, depth = 8
iter = 10675, queue = 15025, heur = -8.0, depth = 8
iter = 10676, queue = 15027, heur = -8.0, depth = 8
iter = 10677, queue = 15029, heur = -8.0, depth = 8
iter = 10678, queue = 15030, heur = -8.0, depth = 8
iter = 10679, queue = 15031, heur = -8.0, depth = 8
iter = 10680, queue = 15034, heur = -8.0, depth = 8
iter = 10681, queue = 15037, heur = -8.0, depth = 10
```

```
iter = 10682, queue = 15038, heur = -8.0, depth = 8
iter = 10683, queue = 15039, heur = -8.0, depth = 8
iter = 10684, queue = 15040, heur = -8.0, depth = 8
iter = 10685, queue = 15043, heur = -8.0, depth = 8
iter = 10686, queue = 15046, heur = -8.0, depth = 8
iter = 10687, queue = 15049, heur = -8.0, depth = 8
iter = 10688, queue = 15052, heur = -8.0, depth = 8
iter = 10689, queue = 15053, heur = -8.0, depth = 8
iter = 10690, queue = 15056, heur = -8.0, depth = 8
iter = 10691, queue = 15057, heur = -8.0, depth = 8
iter = 10692, queue = 15059, heur = -8.0, depth = 8
iter = 10693, queue = 15060, heur = -8.0, depth = 8
iter = 10694, queue = 15061, heur = -8.0, depth = 8
iter = 10695, queue = 15062, heur = -8.0, depth = 8
iter = 10696, queue = 15063, heur = -8.0, depth = 8
iter = 10697, queue = 15064, heur = -8.0, depth = 8
iter = 10698, queue = 15066, heur = -8.0, depth = 8
iter = 10699, queue = 15067, heur = -8.0, depth = 8
iter = 10700, queue = 15070, heur = -8.0, depth = 8
iter = 10701, queue = 15070, heur = -8.0, depth = 8
iter = 10702, queue = 15071, heur = -8.0, depth = 8
iter = 10703, queue = 15072, heur = -8.0, depth = 8
iter = 10704, queue = 15075, heur = -8.0, depth = 8
iter = 10705, queue = 15078, heur = -8.0, depth = 8
iter = 10706, queue = 15081, heur = -8.0, depth = 8
iter = 10707, queue = 15082, heur = -8.0, depth = 8
iter = 10708, queue = 15085, heur = -8.0, depth = 8
iter = 10709, queue = 15088, heur = -8.0, depth = 8
iter = 10710, queue = 15087, heur = -8.0, depth = 8
iter = 10711, queue = 15088, heur = -8.0, depth = 8
iter = 10712, queue = 15087, heur = -8.0, depth = 8
iter = 10713, queue = 15088, heur = -8.0, depth = 8
iter = 10714, queue = 15089, heur = -8.0, depth = 8
iter = 10715, queue = 15090, heur = -8.0, depth = 8
iter = 10716, queue = 15089, heur = -8.0, depth = 8
iter = 10717, queue = 15089, heur = -8.0, depth = 8
iter = 10718, queue = 15090, heur = -8.0, depth = 8
iter = 10719, queue = 15089, heur = -8.0, depth = 9
iter = 10720, queue = 15090, heur = -8.0, depth = 8
iter = 10721, queue = 15090, heur = -8.0, depth = 8
iter = 10722, queue = 15091, heur = -8.0, depth = 8
iter = 10723, queue = 15092, heur = -8.0, depth = 8
iter = 10724, queue = 15095, heur = -8.0, depth = 8
iter = 10725, queue = 15097, heur = -8.0, depth = 8
iter = 10726, queue = 15098, heur = -8.0, depth = 8
iter = 10727, queue = 15099, heur = -8.0, depth = 8
iter = 10728, queue = 15102, heur = -8.0, depth = 8
iter = 10729, queue = 15105, heur = -8.0, depth = 8
iter = 10730, queue = 15105, heur = -8.0, depth = 8
iter = 10731, queue = 15108, heur = -8.0, depth = 8
iter = 10732, queue = 15107, heur = -8.0, depth = 8
iter = 10733, queue = 15107, heur = -8.0, depth = 8
iter = 10734, queue = 15106, heur = -8.0, depth = 8
iter = 10735, queue = 15109, heur = -8.0, depth = 8
iter = 10736, queue = 15112, heur = -8.0, depth = 8
iter = 10737, queue = 15113, heur = -8.0, depth = 8
iter = 10738, queue = 15114, heur = -8.0, depth = 8
iter = 10739, queue = 15115, heur = -8.0, depth = 8
iter = 10740, queue = 15116, heur = -8.0, depth = 8
```

```
iter = 10741, queue = 15115, heur = -8.0, depth = 8
iter = 10742, queue = 15115, heur = -8.0, depth = 8
iter = 10743, queue = 15116, heur = -8.0, depth = 8
iter = 10744, queue = 15119, heur = -8.0, depth = 8
iter = 10745, queue = 15119, heur = -8.0, depth = 8
iter = 10746, queue = 15121, heur = -8.0, depth = 8
iter = 10747, queue = 15121, heur = -8.0, depth = 8
iter = 10748, queue = 15122, heur = -8.0, depth = 8
iter = 10749, queue = 15123, heur = -8.0, depth = 8
iter = 10750, queue = 15124, heur = -8.0, depth = 8
iter = 10751, queue = 15126, heur = -8.0, depth = 8
iter = 10752, queue = 15127, heur = -8.0, depth = 8
iter = 10753, queue = 15130, heur = -8.0, depth = 8
iter = 10754, queue = 15132, heur = -8.0, depth = 8
iter = 10755, queue = 15133, heur = -8.0, depth = 8
iter = 10756, queue = 15134, heur = -8.0, depth = 8
iter = 10757, queue = 15136, heur = -8.0, depth = 8
iter = 10758, queue = 15136, heur = -8.0, depth = 8
iter = 10759, queue = 15138, heur = -8.0, depth = 8
iter = 10760, queue = 15141, heur = -8.0, depth = 8
iter = 10761, queue = 15144, heur = -8.0, depth = 8
iter = 10762, queue = 15146, heur = -8.0, depth = 8
iter = 10763, queue = 15149, heur = -8.0, depth = 8
iter = 10764, queue = 15149, heur = -8.0, depth = 8
iter = 10765, queue = 15150, heur = -8.0, depth = 8
iter = 10766, queue = 15150, heur = -8.0, depth = 8
iter = 10767, queue = 15151, heur = -8.0, depth = 8
iter = 10768, queue = 15152, heur = -8.0, depth = 8
iter = 10769, queue = 15153, heur = -8.0, depth = 8
iter = 10770, queue = 15152, heur = -8.0, depth = 8
iter = 10771, queue = 15154, heur = -8.0, depth = 8
iter = 10772, queue = 15155, heur = -8.0, depth = 8
iter = 10773, queue = 15156, heur = -8.0, depth = 8
iter = 10774, queue = 15157, heur = -8.0, depth = 8
iter = 10775, queue = 15158, heur = -8.0, depth = 8
iter = 10776, queue = 15159, heur = -8.0, depth = 8
iter = 10777, queue = 15159, heur = -8.0, depth = 8
iter = 10778, queue = 15158, heur = -8.0, depth = 8
iter = 10779, queue = 15161, heur = -8.0, depth = 8
iter = 10780, queue = 15162, heur = -8.0, depth = 8
iter = 10781, queue = 15164, heur = -8.0, depth = 8
iter = 10782, queue = 15167, heur = -8.0, depth = 8
iter = 10783, queue = 15167, heur = -8.0, depth = 8
iter = 10784, queue = 15168, heur = -8.0, depth = 8
iter = 10785, queue = 15169, heur = -8.0, depth = 8
iter = 10786, queue = 15168, heur = -8.0, depth = 8
iter = 10787, queue = 15169, heur = -8.0, depth = 8
iter = 10788, queue = 15171, heur = -8.0, depth = 8
iter = 10789, queue = 15174, heur = -8.0, depth = 8
iter = 10790, queue = 15175, heur = -8.0, depth = 9
iter = 10791, queue = 15176, heur = -8.0, depth = 8
iter = 10792, queue = 15179, heur = -8.0, depth = 9
iter = 10793, queue = 15182, heur = -8.0, depth = 8
iter = 10794, queue = 15181, heur = -8.0, depth = 8
iter = 10795, queue = 15182, heur = -8.0, depth = 8
iter = 10796, queue = 15183, heur = -8.0, depth = 8
iter = 10797, queue = 15186, heur = -8.0, depth = 8
iter = 10798, queue = 15188, heur = -8.0, depth = 8
iter = 10799, queue = 15191, heur = -8.0, depth = 8
```

```
iter = 10800, queue = 15193, heur = -8.0, depth = 8
iter = 10801, queue = 15193, heur = -8.0, depth = 8
iter = 10802, queue = 15194, heur = -8.0, depth = 8
iter = 10803, queue = 15197, heur = -8.0, depth = 8
iter = 10804, queue = 15196, heur = -8.0, depth = 8
iter = 10805, queue = 15197, heur = -8.0, depth = 8
iter = 10806, queue = 15200, heur = -8.0, depth = 8
iter = 10807, queue = 15201, heur = -8.0, depth = 8
iter = 10808, queue = 15204, heur = -8.0, depth = 8
iter = 10809, queue = 15206, heur = -8.0, depth = 8
iter = 10810, queue = 15209, heur = -8.0, depth = 8
iter = 10811, queue = 15212, heur = -8.0, depth = 8
iter = 10812, queue = 15213, heur = -8.0, depth = 8
iter = 10813, queue = 15214, heur = -8.0, depth = 8
iter = 10814, queue = 15217, heur = -8.0, depth = 8
iter = 10815, queue = 15220, heur = -8.0, depth = 8
iter = 10816, queue = 15221, heur = -8.0, depth = 8
iter = 10817, queue = 15222, heur = -8.0, depth = 8
iter = 10818, queue = 15221, heur = -8.0, depth = 8
iter = 10819, queue = 15224, heur = -8.0, depth = 8
iter = 10820, queue = 15227, heur = -8.0, depth = 9
iter = 10821, queue = 15228, heur = -8.0, depth = 8
iter = 10822, queue = 15230, heur = -8.0, depth = 8
iter = 10823, queue = 15233, heur = -8.0, depth = 8
iter = 10824, queue = 15235, heur = -8.0, depth = 8
iter = 10825, queue = 15238, heur = -8.0, depth = 8
iter = 10826, queue = 15239, heur = -8.0, depth = 8
iter = 10827, queue = 15241, heur = -8.0, depth = 8
iter = 10828, queue = 15243, heur = -8.0, depth = 8
iter = 10829, queue = 15246, heur = -8.0, depth = 8
iter = 10830, queue = 15247, heur = -8.0, depth = 8
iter = 10831, queue = 15247, heur = -8.0, depth = 8
iter = 10832, queue = 15247, heur = -8.0, depth = 8
iter = 10833, queue = 15248, heur = -8.0, depth = 8
iter = 10834, queue = 15249, heur = -8.0, depth = 8
iter = 10835, queue = 15252, heur = -8.0, depth = 8
iter = 10836, queue = 15255, heur = -8.0, depth = 8
iter = 10837, queue = 15256, heur = -8.0, depth = 8
iter = 10838, queue = 15255, heur = -8.0, depth = 8
iter = 10839, queue = 15255, heur = -8.0, depth = 8
iter = 10840, queue = 15258, heur = -8.0, depth = 8
iter = 10841, queue = 15259, heur = -8.0, depth = 8
iter = 10842, queue = 15258, heur = -8.0, depth = 8
iter = 10843, queue = 15260, heur = -8.0, depth = 8
iter = 10844, queue = 15259, heur = -8.0, depth = 9
iter = 10845, queue = 15259, heur = -8.0, depth = 8
iter = 10846, queue = 15261, heur = -8.0, depth = 8
iter = 10847, queue = 15263, heur = -8.0, depth = 8
iter = 10848, queue = 15266, heur = -8.0, depth = 8
iter = 10849, queue = 15269, heur = -8.0, depth = 8
iter = 10850, queue = 15270, heur = -8.0, depth = 8
iter = 10851, queue = 15270, heur = -8.0, depth = 8
iter = 10852, queue = 15273, heur = -8.0, depth = 8
iter = 10853, queue = 15274, heur = -8.0, depth = 8
iter = 10854, queue = 15277, heur = -8.0, depth = 8
iter = 10855, queue = 15278, heur = -8.0, depth = 8
iter = 10856, queue = 15279, heur = -8.0, depth = 8
iter = 10857, queue = 15281, heur = -8.0, depth = 8
iter = 10858, queue = 15284, heur = -8.0, depth = 8
```

```
iter = 10859, queue = 15287, heur = -8.0, depth = 8
iter = 10860, queue = 15289, heur = -8.0, depth = 8
iter = 10861, queue = 15290, heur = -8.0, depth = 8
iter = 10862, queue = 15291, heur = -8.0, depth = 8
iter = 10863, queue = 15292, heur = -8.0, depth = 8
iter = 10864, queue = 15295, heur = -8.0, depth = 8
iter = 10865, queue = 15295, heur = -8.0, depth = 8
iter = 10866, queue = 15296, heur = -8.0, depth = 8
iter = 10867, queue = 15299, heur = -8.0, depth = 8
iter = 10868, queue = 15300, heur = -8.0, depth = 8
iter = 10869, queue = 15303, heur = -8.0, depth = 8
iter = 10870, queue = 15306, heur = -8.0, depth = 8
iter = 10871, queue = 15308, heur = -8.0, depth = 8
iter = 10872, queue = 15308, heur = -8.0, depth = 8
iter = 10873, queue = 15309, heur = -8.0, depth = 8
iter = 10874, queue = 15312, heur = -8.0, depth = 8
iter = 10875, queue = 15312, heur = -8.0, depth = 8
iter = 10876, queue = 15313, heur = -8.0, depth = 8
iter = 10877, queue = 15316, heur = -8.0, depth = 8
iter = 10878, queue = 15317, heur = -8.0, depth = 8
iter = 10879, queue = 15319, heur = -8.0, depth = 9
iter = 10880, queue = 15322, heur = -8.0, depth = 8
iter = 10881, queue = 15323, heur = -8.0, depth = 8
iter = 10882, queue = 15324, heur = -8.0, depth = 8
iter = 10883, queue = 15325, heur = -8.0, depth = 8
iter = 10884, queue = 15327, heur = -8.0, depth = 8
iter = 10885, queue = 15330, heur = -8.0, depth = 8
iter = 10886, queue = 15333, heur = -8.0, depth = 8
iter = 10887, queue = 15335, heur = -8.0, depth = 8
iter = 10888, queue = 15336, heur = -8.0, depth = 9
iter = 10889, queue = 15337, heur = -8.0, depth = 8
iter = 10890, queue = 15338, heur = -8.0, depth = 8
iter = 10891, queue = 15341, heur = -8.0, depth = 8
iter = 10892, queue = 15342, heur = -8.0, depth = 8
iter = 10893, queue = 15344, heur = -8.0, depth = 8
iter = 10894, queue = 15345, heur = -8.0, depth = 8
iter = 10895, queue = 15346, heur = -8.0, depth = 8
iter = 10896, queue = 15349, heur = -8.0, depth = 8
iter = 10897, queue = 15352, heur = -8.0, depth = 8
iter = 10898, queue = 15354, heur = -8.0, depth = 8
iter = 10899, queue = 15355, heur = -8.0, depth = 8
iter = 10900, queue = 15355, heur = -8.0, depth = 8
iter = 10901, queue = 15355, heur = -8.0, depth = 8
iter = 10902, queue = 15356, heur = -8.0, depth = 8
iter = 10903, queue = 15359, heur = -8.0, depth = 8
iter = 10904, queue = 15360, heur = -8.0, depth = 8
iter = 10905, queue = 15361, heur = -8.0, depth = 8
iter = 10906, queue = 15362, heur = -8.0, depth = 8
iter = 10907, queue = 15365, heur = -8.0, depth = 8
iter = 10908, queue = 15368, heur = -8.0, depth = 8
iter = 10909, queue = 15371, heur = -8.0, depth = 8
iter = 10910, queue = 15374, heur = -8.0, depth = 8
iter = 10911, queue = 15376, heur = -8.0, depth = 8
iter = 10912, queue = 15379, heur = -8.0, depth = 8
iter = 10913, queue = 15382, heur = -8.0, depth = 8
iter = 10914, queue = 15383, heur = -8.0, depth = 8
iter = 10915, queue = 15385, heur = -8.0, depth = 8
iter = 10916, queue = 15388, heur = -8.0, depth = 8
iter = 10917, queue = 15389, heur = -8.0, depth = 8
```

```
iter = 10918, queue = 15391, heur = -8.0, depth = 8
iter = 10919, queue = 15394, heur = -8.0, depth = 8
iter = 10920, queue = 15397, heur = -8.0, depth = 8
iter = 10921, queue = 15399, heur = -8.0, depth = 9
iter = 10922, queue = 15401, heur = -8.0, depth = 8
iter = 10923, queue = 15402, heur = -8.0, depth = 8
iter = 10924, queue = 15403, heur = -8.0, depth = 8
iter = 10925, queue = 15403, heur = -8.0, depth = 8
iter = 10926, queue = 15405, heur = -8.0, depth = 8
iter = 10927, queue = 15405, heur = -8.0, depth = 8
iter = 10928, queue = 15404, heur = -8.0, depth = 8
iter = 10929, queue = 15405, heur = -8.0, depth = 8
iter = 10930, queue = 15405, heur = -8.0, depth = 8
iter = 10931, queue = 15405, heur = -8.0, depth = 8
iter = 10932, queue = 15406, heur = -8.0, depth = 8
iter = 10933, queue = 15408, heur = -8.0, depth = 8
iter = 10934, queue = 15408, heur = -8.0, depth = 8
iter = 10935, queue = 15408, heur = -8.0, depth = 8
iter = 10936, queue = 15409, heur = -8.0, depth = 8
iter = 10937, queue = 15412, heur = -8.0, depth = 8
iter = 10938, queue = 15413, heur = -8.0, depth = 8
iter = 10939, queue = 15413, heur = -8.0, depth = 8
iter = 10940, queue = 15413, heur = -8.0, depth = 8
iter = 10941, queue = 15415, heur = -8.0, depth = 8
iter = 10942, queue = 15418, heur = -8.0, depth = 8
iter = 10943, queue = 15421, heur = -8.0, depth = 8
iter = 10944, queue = 15423, heur = -8.0, depth = 8
iter = 10945, queue = 15426, heur = -8.0, depth = 8
iter = 10946, queue = 15426, heur = -8.0, depth = 8
iter = 10947, queue = 15429, heur = -8.0, depth = 8
iter = 10948, queue = 15429, heur = -8.0, depth = 8
iter = 10949, queue = 15429, heur = -8.0, depth = 8
iter = 10950, queue = 15428, heur = -8.0, depth = 8
iter = 10951, queue = 15429, heur = -8.0, depth = 8
iter = 10952, queue = 15432, heur = -8.0, depth = 8
iter = 10953, queue = 15433, heur = -8.0, depth = 8
iter = 10954, queue = 15433, heur = -8.0, depth = 8
iter = 10955, queue = 15434, heur = -8.0, depth = 8
iter = 10956, queue = 15437, heur = -8.0, depth = 8
iter = 10957, queue = 15438, heur = -8.0, depth = 8
iter = 10958, queue = 15441, heur = -8.0, depth = 8
iter = 10959, queue = 15442, heur = -8.0, depth = 8
iter = 10960, queue = 15442, heur = -8.0, depth = 8
iter = 10961, queue = 15444, heur = -8.0, depth = 8
iter = 10962, queue = 15445, heur = -8.0, depth = 8
iter = 10963, queue = 15447, heur = -8.0, depth = 8
iter = 10964, queue = 15450, heur = -8.0, depth = 8
iter = 10965, queue = 15451, heur = -8.0, depth = 8
iter = 10966, queue = 15453, heur = -8.0, depth = 8
iter = 10967, queue = 15454, heur = -8.0, depth = 8
iter = 10968, queue = 15454, heur = -8.0, depth = 8
iter = 10969, queue = 15455, heur = -8.0, depth = 8
iter = 10970, queue = 15456, heur = -8.0, depth = 8
iter = 10971, queue = 15457, heur = -8.0, depth = 8
iter = 10972, queue = 15458, heur = -8.0, depth = 8
iter = 10973, queue = 15461, heur = -8.0, depth = 8
iter = 10974, queue = 15462, heur = -8.0, depth = 8
iter = 10975, queue = 15463, heur = -8.0, depth = 8
iter = 10976, queue = 15464, heur = -8.0, depth = 8
```

```
iter = 10977, queue = 15465, heur = -8.0, depth = 8
iter = 10978, queue = 15467, heur = -8.0, depth = 8
iter = 10979, queue = 15470, heur = -8.0, depth = 8
iter = 10980, queue = 15469, heur = -8.0, depth = 8
iter = 10981, queue = 15472, heur = -8.0, depth = 8
iter = 10982, queue = 15475, heur = -8.0, depth = 9
iter = 10983, queue = 15476, heur = -8.0, depth = 8
iter = 10984, queue = 15476, heur = -8.0, depth = 8
iter = 10985, queue = 15479, heur = -8.0, depth = 8
iter = 10986, queue = 15482, heur = -8.0, depth = 8
iter = 10987, queue = 15481, heur = -8.0, depth = 8
iter = 10988, queue = 15482, heur = -8.0, depth = 8
iter = 10989, queue = 15483, heur = -8.0, depth = 8
iter = 10990, queue = 15482, heur = -8.0, depth = 8
iter = 10991, queue = 15481, heur = -8.0, depth = 8
iter = 10992, queue = 15483, heur = -8.0, depth = 8
iter = 10993, queue = 15485, heur = -8.0, depth = 8
iter = 10994, queue = 15486, heur = -8.0, depth = 8
iter = 10995, queue = 15487, heur = -8.0, depth = 8
iter = 10996, queue = 15487, heur = -8.0, depth = 8
iter = 10997, queue = 15490, heur = -8.0, depth = 8
iter = 10998, queue = 15493, heur = -8.0, depth = 8
iter = 10999, queue = 15494, heur = -8.0, depth = 8
iter = 11000, queue = 15497, heur = -8.0, depth = 8
iter = 11001, queue = 15498, heur = -8.0, depth = 8
iter = 11002, queue = 15501, heur = -8.0, depth = 8
iter = 11003, queue = 15503, heur = -8.0, depth = 8
iter = 11004, queue = 15504, heur = -8.0, depth = 8
iter = 11005, queue = 15507, heur = -8.0, depth = 8
iter = 11006, queue = 15507, heur = -8.0, depth = 8
iter = 11007, queue = 15506, heur = -8.0, depth = 8
iter = 11008, queue = 15509, heur = -8.0, depth = 8
iter = 11009, queue = 15512, heur = -8.0, depth = 8
iter = 11010, queue = 15515, heur = -8.0, depth = 8
iter = 11011, queue = 15514, heur = -8.0, depth = 8
iter = 11012, queue = 15517, heur = -8.0, depth = 8
iter = 11013, queue = 15520, heur = -8.0, depth = 8
iter = 11014, queue = 15523, heur = -8.0, depth = 8
iter = 11015, queue = 15526, heur = -8.0, depth = 8
iter = 11016, queue = 15527, heur = -8.0, depth = 8
iter = 11017, queue = 15530, heur = -8.0, depth = 8
iter = 11018, queue = 15531, heur = -8.0, depth = 8
iter = 11019, queue = 15534, heur = -8.0, depth = 8
iter = 11020, queue = 15535, heur = -8.0, depth = 8
iter = 11021, queue = 15538, heur = -8.0, depth = 8
iter = 11022, queue = 15541, heur = -8.0, depth = 8
iter = 11023, queue = 15542, heur = -8.0, depth = 8
iter = 11024, queue = 15541, heur = -8.0, depth = 8
iter = 11025, queue = 15542, heur = -8.0, depth = 8
iter = 11026, queue = 15545, heur = -8.0, depth = 9
iter = 11027, queue = 15546, heur = -8.0, depth = 8
iter = 11028, queue = 15547, heur = -8.0, depth = 8
iter = 11029, queue = 15548, heur = -8.0, depth = 8
iter = 11030, queue = 15548, heur = -8.0, depth = 8
iter = 11031, queue = 15551, heur = -8.0, depth = 8
iter = 11032, queue = 15554, heur = -8.0, depth = 8
iter = 11033, queue = 15557, heur = -8.0, depth = 8
iter = 11034, queue = 15556, heur = -8.0, depth = 8
iter = 11035, queue = 15559, heur = -8.0, depth = 8
```

```
iter = 11036, queue = 15562, heur = -8.0, depth = 8
iter = 11037, queue = 15563, heur = -8.0, depth = 8
iter = 11038, queue = 15564, heur = -8.0, depth = 8
iter = 11039, queue = 15566, heur = -8.0, depth = 8
iter = 11040, queue = 15569, heur = -8.0, depth = 8
iter = 11041, queue = 15570, heur = -8.0, depth = 8
iter = 11042, queue = 15569, heur = -8.0, depth = 8
iter = 11043, queue = 15572, heur = -8.0, depth = 8
iter = 11044, queue = 15573, heur = -8.0, depth = 8
iter = 11045, queue = 15574, heur = -8.0, depth = 8
iter = 11046, queue = 15575, heur = -8.0, depth = 8
iter = 11047, queue = 15576, heur = -8.0, depth = 8
iter = 11048, queue = 15577, heur = -8.0, depth = 8
iter = 11049, queue = 15579, heur = -8.0, depth = 8
iter = 11050, queue = 15582, heur = -8.0, depth = 8
iter = 11051, queue = 15581, heur = -8.0, depth = 8
iter = 11052, queue = 15582, heur = -8.0, depth = 8
iter = 11053, queue = 15585, heur = -8.0, depth = 8
iter = 11054, queue = 15586, heur = -8.0, depth = 8
iter = 11055, queue = 15588, heur = -8.0, depth = 8
iter = 11056, queue = 15590, heur = -8.0, depth = 8
iter = 11057, queue = 15593, heur = -8.0, depth = 8
iter = 11058, queue = 15596, heur = -8.0, depth = 8
iter = 11059, queue = 15597, heur = -8.0, depth = 8
iter = 11060, queue = 15598, heur = -8.0, depth = 8
iter = 11061, queue = 15601, heur = -8.0, depth = 8
iter = 11062, queue = 15603, heur = -8.0, depth = 8
iter = 11063, queue = 15603, heur = -8.0, depth = 8
iter = 11064, queue = 15606, heur = -8.0, depth = 8
iter = 11065, queue = 15607, heur = -8.0, depth = 8
iter = 11066, queue = 15608, heur = -8.0, depth = 8
iter = 11067, queue = 15609, heur = -8.0, depth = 8
iter = 11068, queue = 15610, heur = -8.0, depth = 8
iter = 11069, queue = 15609, heur = -8.0, depth = 8
iter = 11070, queue = 15611, heur = -8.0, depth = 8
iter = 11071, queue = 15612, heur = -8.0, depth = 8
iter = 11072, queue = 15613, heur = -8.0, depth = 8
iter = 11073, queue = 15614, heur = -8.0, depth = 8
iter = 11074, queue = 15616, heur = -8.0, depth = 8
iter = 11075, queue = 15619, heur = -8.0, depth = 8
iter = 11076, queue = 15620, heur = -8.0, depth = 8
iter = 11077, queue = 15620, heur = -8.0, depth = 8
iter = 11078, queue = 15621, heur = -8.0, depth = 8
iter = 11079, queue = 15621, heur = -8.0, depth = 8
iter = 11080, queue = 15622, heur = -8.0, depth = 8
iter = 11081, queue = 15623, heur = -8.0, depth = 8
iter = 11082, queue = 15624, heur = -8.0, depth = 8
iter = 11083, queue = 15625, heur = -8.0, depth = 8
iter = 11084, queue = 15626, heur = -8.0, depth = 8
iter = 11085, queue = 15627, heur = -8.0, depth = 8
iter = 11086, queue = 15628, heur = -8.0, depth = 8
iter = 11087, queue = 15630, heur = -8.0, depth = 8
iter = 11088, queue = 15631, heur = -8.0, depth = 8
iter = 11089, queue = 15632, heur = -8.0, depth = 8
iter = 11090, queue = 15632, heur = -8.0, depth = 8
iter = 11091, queue = 15633, heur = -8.0, depth = 9
iter = 11092, queue = 15634, heur = -8.0, depth = 8
iter = 11093, queue = 15635, heur = -8.0, depth = 8
iter = 11094, queue = 15634, heur = -8.0, depth = 8
```

```
iter = 11095, queue = 15635, heur = -8.0, depth = 8
iter = 11096, queue = 15636, heur = -8.0, depth = 9
iter = 11097, queue = 15637, heur = -8.0, depth = 8
iter = 11098, queue = 15638, heur = -8.0, depth = 8
iter = 11099, queue = 15639, heur = -8.0, depth = 8
iter = 11100, queue = 15642, heur = -8.0, depth = 8
iter = 11101, queue = 15645, heur = -8.0, depth = 8
iter = 11102, queue = 15646, heur = -8.0, depth = 8
iter = 11103, queue = 15645, heur = -8.0, depth = 8
iter = 11104, queue = 15646, heur = -8.0, depth = 8
iter = 11105, queue = 15647, heur = -8.0, depth = 8
iter = 11106, queue = 15648, heur = -8.0, depth = 8
iter = 11107, queue = 15648, heur = -8.0, depth = 8
iter = 11108, queue = 15649, heur = -8.0, depth = 8
iter = 11109, queue = 15650, heur = -8.0, depth = 8
iter = 11110, queue = 15651, heur = -8.0, depth = 8
iter = 11111, queue = 15652, heur = -8.0, depth = 8
iter = 11112, queue = 15652, heur = -8.0, depth = 9
iter = 11113, queue = 15653, heur = -8.0, depth = 8
iter = 11114, queue = 15653, heur = -8.0, depth = 8
iter = 11115, queue = 15654, heur = -8.0, depth = 8
iter = 11116, queue = 15655, heur = -8.0, depth = 8
iter = 11117, queue = 15656, heur = -8.0, depth = 8
iter = 11118, queue = 15657, heur = -8.0, depth = 8
iter = 11119, queue = 15659, heur = -8.0, depth = 8
iter = 11120, queue = 15660, heur = -8.0, depth = 8
iter = 11121, queue = 15663, heur = -8.0, depth = 8
iter = 11122, queue = 15664, heur = -8.0, depth = 8
iter = 11123, queue = 15667, heur = -8.0, depth = 9
iter = 11124, queue = 15668, heur = -8.0, depth = 8
iter = 11125, queue = 15671, heur = -8.0, depth = 8
iter = 11126, queue = 15674, heur = -8.0, depth = 9
iter = 11127, queue = 15677, heur = -8.0, depth = 8
iter = 11128, queue = 15678, heur = -8.0, depth = 8
iter = 11129, queue = 15677, heur = -8.0, depth = 8
iter = 11130, queue = 15680, heur = -8.0, depth = 10
iter = 11131, queue = 15683, heur = -8.0, depth = 8
iter = 11132, queue = 15684, heur = -8.0, depth = 8
iter = 11133, queue = 15685, heur = -8.0, depth = 8
iter = 11134, queue = 15686, heur = -8.0, depth = 8
iter = 11135, queue = 15686, heur = -8.0, depth = 8
iter = 11136, queue = 15689, heur = -8.0, depth = 8
iter = 11137, queue = 15691, heur = -8.0, depth = 8
iter = 11138, queue = 15692, heur = -8.0, depth = 8
iter = 11139, queue = 15693, heur = -8.0, depth = 8
iter = 11140, queue = 15693, heur = -8.0, depth = 8
iter = 11141, queue = 15694, heur = -8.0, depth = 8
iter = 11142, queue = 15695, heur = -8.0, depth = 8
iter = 11143, queue = 15696, heur = -8.0, depth = 8
iter = 11144, queue = 15697, heur = -8.0, depth = 8
iter = 11145, queue = 15698, heur = -8.0, depth = 8
iter = 11146, queue = 15700, heur = -8.0, depth = 8
iter = 11147, queue = 15701, heur = -8.0, depth = 8
iter = 11148, queue = 15700, heur = -8.0, depth = 8
iter = 11149, queue = 15701, heur = -8.0, depth = 8
iter = 11150, queue = 15702, heur = -8.0, depth = 8
iter = 11151, queue = 15703, heur = -8.0, depth = 8
iter = 11152, queue = 15704, heur = -8.0, depth = 8
iter = 11153, queue = 15707, heur = -8.0, depth = 8
```

```
iter = 11154, queue = 15710, heur = -8.0, depth = 8
iter = 11155, queue = 15713, heur = -8.0, depth = 9
iter = 11156, queue = 15714, heur = -8.0, depth = 8
iter = 11157, queue = 15715, heur = -8.0, depth = 8
iter = 11158, queue = 15715, heur = -8.0, depth = 8
iter = 11159, queue = 15714, heur = -8.0, depth = 10
iter = 11160, queue = 15715, heur = -8.0, depth = 8
iter = 11161, queue = 15716, heur = -8.0, depth = 8
iter = 11162, queue = 15719, heur = -8.0, depth = 8
iter = 11163, queue = 15720, heur = -8.0, depth = 8
iter = 11164, queue = 15721, heur = -8.0, depth = 8
iter = 11165, queue = 15723, heur = -8.0, depth = 8
iter = 11166, queue = 15723, heur = -8.0, depth = 8
iter = 11167, queue = 15723, heur = -8.0, depth = 8
iter = 11168, queue = 15724, heur = -8.0, depth = 8
iter = 11169, queue = 15725, heur = -8.0, depth = 9
iter = 11170, queue = 15725, heur = -8.0, depth = 8
iter = 11171, queue = 15725, heur = -8.0, depth = 8
iter = 11172, queue = 15726, heur = -8.0, depth = 8
iter = 11173, queue = 15729, heur = -8.0, depth = 8
iter = 11174, queue = 15729, heur = -8.0, depth = 8
iter = 11175, queue = 15729, heur = -8.0, depth = 8
iter = 11176, queue = 15730, heur = -8.0, depth = 8
iter = 11177, queue = 15732, heur = -8.0, depth = 8
iter = 11178, queue = 15734, heur = -8.0, depth = 8
iter = 11179, queue = 15737, heur = -8.0, depth = 8
iter = 11180, queue = 15739, heur = -8.0, depth = 8
iter = 11181, queue = 15740, heur = -8.0, depth = 8
iter = 11182, queue = 15740, heur = -8.0, depth = 8
iter = 11183, queue = 15741, heur = -8.0, depth = 8
iter = 11184, queue = 15741, heur = -8.0, depth = 8
iter = 11185, queue = 15742, heur = -8.0, depth = 8
iter = 11186, queue = 15744, heur = -8.0, depth = 11
iter = 11187, queue = 15746, heur = -8.0, depth = 8
iter = 11188, queue = 15747, heur = -8.0, depth = 8
iter = 11189, queue = 15746, heur = -8.0, depth = 8
iter = 11190, queue = 15745, heur = -8.0, depth = 8
iter = 11191, queue = 15746, heur = -8.0, depth = 8
iter = 11192, queue = 15748, heur = -8.0, depth = 8
iter = 11193, queue = 15748, heur = -8.0, depth = 8
iter = 11194, queue = 15747, heur = -8.0, depth = 8
iter = 11195, queue = 15750, heur = -8.0, depth = 8
iter = 11196, queue = 15751, heur = -8.0, depth = 8
iter = 11197, queue = 15752, heur = -8.0, depth = 8
iter = 11198, queue = 15753, heur = -8.0, depth = 8
iter = 11199, queue = 15754, heur = -8.0, depth = 8
iter = 11200, queue = 15755, heur = -8.0, depth = 8
iter = 11201, queue = 15756, heur = -8.0, depth = 8
iter = 11202, queue = 15757, heur = -8.0, depth = 8
iter = 11203, queue = 15757, heur = -8.0, depth = 8
iter = 11204, queue = 15757, heur = -8.0, depth = 8
iter = 11205, queue = 15758, heur = -8.0, depth = 8
iter = 11206, queue = 15759, heur = -8.0, depth = 8
iter = 11207, queue = 15758, heur = -8.0, depth = 8
iter = 11208, queue = 15760, heur = -8.0, depth = 8
iter = 11209, queue = 15761, heur = -8.0, depth = 8
iter = 11210, queue = 15762, heur = -8.0, depth = 8
iter = 11211, queue = 15761, heur = -8.0, depth = 8
iter = 11212, queue = 15761, heur = -8.0, depth = 8
```

```
iter = 11213, queue = 15762, heur = -8.0, depth = 8
iter = 11214, queue = 15765, heur = -8.0, depth = 8
iter = 11215, queue = 15768, heur = -8.0, depth = 8
iter = 11216, queue = 15769, heur = -8.0, depth = 8
iter = 11217, queue = 15768, heur = -8.0, depth = 8
iter = 11218, queue = 15767, heur = -8.0, depth = 8
iter = 11219, queue = 15770, heur = -8.0, depth = 8
iter = 11220, queue = 15773, heur = -8.0, depth = 8
iter = 11221, queue = 15773, heur = -8.0, depth = 8
iter = 11222, queue = 15774, heur = -8.0, depth = 8
iter = 11223, queue = 15777, heur = -8.0, depth = 8
iter = 11224, queue = 15780, heur = -8.0, depth = 8
iter = 11225, queue = 15781, heur = -8.0, depth = 8
iter = 11226, queue = 15783, heur = -8.0, depth = 8
iter = 11227, queue = 15786, heur = -8.0, depth = 8
iter = 11228, queue = 15787, heur = -8.0, depth = 8
iter = 11229, queue = 15790, heur = -8.0, depth = 8
iter = 11230, queue = 15793, heur = -8.0, depth = 8
iter = 11231, queue = 15796, heur = -8.0, depth = 8
iter = 11232, queue = 15799, heur = -8.0, depth = 8
iter = 11233, queue = 15800, heur = -8.0, depth = 8
iter = 11234, queue = 15802, heur = -8.0, depth = 8
iter = 11235, queue = 15801, heur = -8.0, depth = 8
iter = 11236, queue = 15803, heur = -8.0, depth = 8
iter = 11237, queue = 15804, heur = -8.0, depth = 8
iter = 11238, queue = 15807, heur = -8.0, depth = 8
iter = 11239, queue = 15810, heur = -8.0, depth = 8
iter = 11240, queue = 15811, heur = -8.0, depth = 8
iter = 11241, queue = 15812, heur = -8.0, depth = 8
iter = 11242, queue = 15813, heur = -8.0, depth = 8
iter = 11243, queue = 15816, heur = -8.0, depth = 8
iter = 11244, queue = 15817, heur = -8.0, depth = 8
iter = 11245, queue = 15818, heur = -8.0, depth = 8
iter = 11246, queue = 15819, heur = -8.0, depth = 8
iter = 11247, queue = 15821, heur = -8.0, depth = 8
iter = 11248, queue = 15823, heur = -8.0, depth = 8
iter = 11249, queue = 15825, heur = -8.0, depth = 8
iter = 11250, queue = 15827, heur = -8.0, depth = 8
iter = 11251, queue = 15830, heur = -8.0, depth = 8
iter = 11252, queue = 15831, heur = -8.0, depth = 8
iter = 11253, queue = 15832, heur = -8.0, depth = 8
iter = 11254, queue = 15833, heur = -8.0, depth = 8
iter = 11255, queue = 15833, heur = -8.0, depth = 8
iter = 11256, queue = 15834, heur = -8.0, depth = 8
iter = 11257, queue = 15835, heur = -8.0, depth = 8
iter = 11258, queue = 15836, heur = -8.0, depth = 8
iter = 11259, queue = 15837, heur = -8.0, depth = 8
iter = 11260, queue = 15840, heur = -8.0, depth = 8
iter = 11261, queue = 15841, heur = -8.0, depth = 8
iter = 11262, queue = 15842, heur = -8.0, depth = 8
iter = 11263, queue = 15841, heur = -8.0, depth = 8
iter = 11264, queue = 15843, heur = -8.0, depth = 8
iter = 11265, queue = 15846, heur = -8.0, depth = 8
iter = 11266, queue = 15845, heur = -8.0, depth = 8
iter = 11267, queue = 15845, heur = -8.0, depth = 8
iter = 11268, queue = 15846, heur = -8.0, depth = 8
iter = 11269, queue = 15847, heur = -8.0, depth = 8
iter = 11270, queue = 15848, heur = -8.0, depth = 9
iter = 11271, queue = 15851, heur = -8.0, depth = 8
```

```
iter = 11272, queue = 15850, heur = -8.0, depth = 8
iter = 11273, queue = 15853, heur = -8.0, depth = 9
iter = 11274, queue = 15852, heur = -8.0, depth = 8
iter = 11275, queue = 15853, heur = -8.0, depth = 8
iter = 11276, queue = 15854, heur = -8.0, depth = 8
iter = 11277, queue = 15857, heur = -8.0, depth = 8
iter = 11278, queue = 15856, heur = -8.0, depth = 8
iter = 11279, queue = 15857, heur = -8.0, depth = 8
iter = 11280, queue = 15856, heur = -8.0, depth = 8
iter = 11281, queue = 15857, heur = -8.0, depth = 8
iter = 11282, queue = 15858, heur = -8.0, depth = 8
iter = 11283, queue = 15859, heur = -8.0, depth = 8
iter = 11284, queue = 15860, heur = -8.0, depth = 8
iter = 11285, queue = 15861, heur = -8.0, depth = 8
iter = 11286, queue = 15862, heur = -8.0, depth = 8
iter = 11287, queue = 15864, heur = -8.0, depth = 8
iter = 11288, queue = 15867, heur = -8.0, depth = 8
iter = 11289, queue = 15868, heur = -8.0, depth = 8
iter = 11290, queue = 15871, heur = -8.0, depth = 8
iter = 11291, queue = 15872, heur = -8.0, depth = 8
iter = 11292, queue = 15873, heur = -8.0, depth = 8
iter = 11293, queue = 15872, heur = -8.0, depth = 8
iter = 11294, queue = 15874, heur = -8.0, depth = 8
iter = 11295, queue = 15877, heur = -8.0, depth = 8
iter = 11296, queue = 15879, heur = -8.0, depth = 8
iter = 11297, queue = 15878, heur = -8.0, depth = 8
iter = 11298, queue = 15880, heur = -8.0, depth = 8
iter = 11299, queue = 15882, heur = -8.0, depth = 8
iter = 11300, queue = 15884, heur = -8.0, depth = 8
iter = 11301, queue = 15884, heur = -8.0, depth = 8
iter = 11302, queue = 15885, heur = -8.0, depth = 8
iter = 11303, queue = 15886, heur = -8.0, depth = 8
iter = 11304, queue = 15885, heur = -8.0, depth = 8
iter = 11305, queue = 15886, heur = -8.0, depth = 8
iter = 11306, queue = 15886, heur = -8.0, depth = 8
iter = 11307, queue = 15887, heur = -8.0, depth = 8
iter = 11308, queue = 15890, heur = -8.0, depth = 8
iter = 11309, queue = 15889, heur = -8.0, depth = 8
iter = 11310, queue = 15890, heur = -8.0, depth = 8
iter = 11311, queue = 15891, heur = -8.0, depth = 9
iter = 11312, queue = 15893, heur = -8.0, depth = 8
iter = 11313, queue = 15896, heur = -8.0, depth = 8
iter = 11314, queue = 15897, heur = -8.0, depth = 8
iter = 11315, queue = 15898, heur = -8.0, depth = 9
iter = 11316, queue = 15900, heur = -8.0, depth = 8
iter = 11317, queue = 15903, heur = -8.0, depth = 8
iter = 11318, queue = 15905, heur = -8.0, depth = 8
iter = 11319, queue = 15908, heur = -8.0, depth = 8
iter = 11320, queue = 15911, heur = -8.0, depth = 9
iter = 11321, queue = 15912, heur = -8.0, depth = 8
iter = 11322, queue = 15913, heur = -8.0, depth = 8
iter = 11323, queue = 15914, heur = -8.0, depth = 8
iter = 11324, queue = 15916, heur = -8.0, depth = 9
iter = 11325, queue = 15919, heur = -8.0, depth = 8
iter = 11326, queue = 15918, heur = -8.0, depth = 8
iter = 11327, queue = 15920, heur = -8.0, depth = 9
iter = 11328, queue = 15921, heur = -8.0, depth = 8
iter = 11329, queue = 15920, heur = -8.0, depth = 8
iter = 11330, queue = 15921, heur = -8.0, depth = 8
```

```
iter = 11331, queue = 15922, heur = -8.0, depth = 8
iter = 11332, queue = 15922, heur = -8.0, depth = 8
iter = 11333, queue = 15923, heur = -8.0, depth = 8
iter = 11334, queue = 15924, heur = -8.0, depth = 8
iter = 11335, queue = 15927, heur = -8.0, depth = 8
iter = 11336, queue = 15927, heur = -8.0, depth = 8
iter = 11337, queue = 15928, heur = -8.0, depth = 8
iter = 11338, queue = 15928, heur = -8.0, depth = 8
iter = 11339, queue = 15929, heur = -8.0, depth = 9
iter = 11340, queue = 15930, heur = -8.0, depth = 8
iter = 11341, queue = 15931, heur = -8.0, depth = 8
iter = 11342, queue = 15932, heur = -8.0, depth = 8
iter = 11343, queue = 15933, heur = -8.0, depth = 8
iter = 11344, queue = 15934, heur = -8.0, depth = 8
iter = 11345, queue = 15935, heur = -8.0, depth = 8
iter = 11346, queue = 15936, heur = -8.0, depth = 8
iter = 11347, queue = 15939, heur = -8.0, depth = 8
iter = 11348, queue = 15939, heur = -8.0, depth = 8
iter = 11349, queue = 15938, heur = -8.0, depth = 8
iter = 11350, queue = 15939, heur = -8.0, depth = 8
iter = 11351, queue = 15938, heur = -8.0, depth = 8
iter = 11352, queue = 15939, heur = -8.0, depth = 8
iter = 11353, queue = 15942, heur = -8.0, depth = 8
iter = 11354, queue = 15945, heur = -8.0, depth = 8
iter = 11355, queue = 15948, heur = -8.0, depth = 8
iter = 11356, queue = 15948, heur = -8.0, depth = 8
iter = 11357, queue = 15951, heur = -8.0, depth = 8
iter = 11358, queue = 15952, heur = -8.0, depth = 8
iter = 11359, queue = 15955, heur = -8.0, depth = 8
iter = 11360, queue = 15956, heur = -8.0, depth = 8
iter = 11361, queue = 15955, heur = -8.0, depth = 8
iter = 11362, queue = 15956, heur = -8.0, depth = 9
iter = 11363, queue = 15956, heur = -8.0, depth = 8
iter = 11364, queue = 15957, heur = -8.0, depth = 9
iter = 11365, queue = 15958, heur = -8.0, depth = 8
iter = 11366, queue = 15958, heur = -8.0, depth = 9
iter = 11367, queue = 15959, heur = -8.0, depth = 10
iter = 11368, queue = 15960, heur = -8.0, depth = 10
iter = 11369, queue = 15961, heur = -8.0, depth = 10
iter = 11370, queue = 15962, heur = -8.0, depth = 8
iter = 11371, queue = 15964, heur = -8.0, depth = 8
iter = 11372, queue = 15965, heur = -8.0, depth = 11
iter = 11373, queue = 15966, heur = -8.0, depth = 10
iter = 11374, queue = 15967, heur = -8.0, depth = 8
iter = 11375, queue = 15967, heur = -8.0, depth = 8
iter = 11376, queue = 15969, heur = -8.0, depth = 8
iter = 11377, queue = 15968, heur = -8.0, depth = 8
iter = 11378, queue = 15969, heur = -8.0, depth = 8
iter = 11379, queue = 15970, heur = -8.0, depth = 8
iter = 11380, queue = 15971, heur = -8.0, depth = 8
iter = 11381, queue = 15972, heur = -8.0, depth = 8
iter = 11382, queue = 15975, heur = -8.0, depth = 8
iter = 11383, queue = 15978, heur = -8.0, depth = 8
iter = 11384, queue = 15981, heur = -8.0, depth = 8
iter = 11385, queue = 15982, heur = -8.0, depth = 8
iter = 11386, queue = 15983, heur = -8.0, depth = 8
iter = 11387, queue = 15986, heur = -8.0, depth = 8
iter = 11388, queue = 15988, heur = -8.0, depth = 8
iter = 11389, queue = 15991, heur = -8.0, depth = 8
```

```
iter = 11390, queue = 15992, heur = -8.0, depth = 8
iter = 11391, queue = 15993, heur = -8.0, depth = 8
iter = 11392, queue = 15996, heur = -8.0, depth = 8
iter = 11393, queue = 15995, heur = -8.0, depth = 9
iter = 11394, queue = 15998, heur = -8.0, depth = 8
iter = 11395, queue = 15999, heur = -8.0, depth = 9
iter = 11396, queue = 15999, heur = -8.0, depth = 8
iter = 11397, queue = 16000, heur = -8.0, depth = 8
iter = 11398, queue = 16002, heur = -8.0, depth = 8
iter = 11399, queue = 16003, heur = -8.0, depth = 8
iter = 11400, queue = 16004, heur = -8.0, depth = 8
iter = 11401, queue = 16005, heur = -8.0, depth = 8
iter = 11402, queue = 16004, heur = -8.0, depth = 8
iter = 11403, queue = 16003, heur = -8.0, depth = 11
iter = 11404, queue = 16004, heur = -8.0, depth = 8
iter = 11405, queue = 16005, heur = -8.0, depth = 8
iter = 11406, queue = 16004, heur = -8.0, depth = 8
iter = 11407, queue = 16005, heur = -8.0, depth = 8
iter = 11408, queue = 16008, heur = -8.0, depth = 8
iter = 11409, queue = 16009, heur = -8.0, depth = 8
iter = 11410, queue = 16012, heur = -8.0, depth = 8
iter = 11411, queue = 16012, heur = -8.0, depth = 8
iter = 11412, queue = 16015, heur = -8.0, depth = 8
iter = 11413, queue = 16017, heur = -8.0, depth = 8
iter = 11414, queue = 16020, heur = -8.0, depth = 8
iter = 11415, queue = 16023, heur = -8.0, depth = 8
iter = 11416, queue = 16026, heur = -8.0, depth = 8
iter = 11417, queue = 16027, heur = -8.0, depth = 8
iter = 11418, queue = 16030, heur = -8.0, depth = 8
iter = 11419, queue = 16030, heur = -8.0, depth = 8
iter = 11420, queue = 16029, heur = -8.0, depth = 8
iter = 11421, queue = 16031, heur = -8.0, depth = 8
iter = 11422, queue = 16030, heur = -8.0, depth = 8
iter = 11423, queue = 16031, heur = -8.0, depth = 8
iter = 11424, queue = 16034, heur = -8.0, depth = 8
iter = 11425, queue = 16035, heur = -8.0, depth = 8
iter = 11426, queue = 16036, heur = -8.0, depth = 8
iter = 11427, queue = 16036, heur = -8.0, depth = 8
iter = 11428, queue = 16037, heur = -8.0, depth = 8
iter = 11429, queue = 16039, heur = -8.0, depth = 8
iter = 11430, queue = 16040, heur = -8.0, depth = 8
iter = 11431, queue = 16041, heur = -8.0, depth = 8
iter = 11432, queue = 16042, heur = -8.0, depth = 8
iter = 11433, queue = 16045, heur = -8.0, depth = 8
iter = 11434, queue = 16047, heur = -8.0, depth = 8
iter = 11435, queue = 16050, heur = -8.0, depth = 8
iter = 11436, queue = 16051, heur = -8.0, depth = 8
iter = 11437, queue = 16050, heur = -8.0, depth = 8
iter = 11438, queue = 16053, heur = -8.0, depth = 8
iter = 11439, queue = 16055, heur = -8.0, depth = 9
iter = 11440, queue = 16055, heur = -8.0, depth = 8
iter = 11441, queue = 16056, heur = -8.0, depth = 8
iter = 11442, queue = 16055, heur = -8.0, depth = 8
iter = 11443, queue = 16058, heur = -8.0, depth = 8
iter = 11444, queue = 16058, heur = -8.0, depth = 8
iter = 11445, queue = 16059, heur = -8.0, depth = 8
iter = 11446, queue = 16060, heur = -8.0, depth = 8
iter = 11447, queue = 16061, heur = -8.0, depth = 8
iter = 11448, queue = 16061, heur = -8.0, depth = 8
```

```
iter = 11449, queue = 16064, heur = -8.0, depth = 8
iter = 11450, queue = 16066, heur = -8.0, depth = 8
iter = 11451, queue = 16067, heur = -8.0, depth = 8
iter = 11452, queue = 16068, heur = -8.0, depth = 8
iter = 11453, queue = 16070, heur = -8.0, depth = 8
iter = 11454, queue = 16073, heur = -8.0, depth = 8
iter = 11455, queue = 16076, heur = -8.0, depth = 8
iter = 11456, queue = 16079, heur = -8.0, depth = 8
iter = 11457, queue = 16081, heur = -8.0, depth = 8
iter = 11458, queue = 16084, heur = -8.0, depth = 8
iter = 11459, queue = 16085, heur = -8.0, depth = 8
iter = 11460, queue = 16088, heur = -8.0, depth = 8
iter = 11461, queue = 16091, heur = -8.0, depth = 8
iter = 11462, queue = 16091, heur = -8.0, depth = 8
iter = 11463, queue = 16092, heur = -8.0, depth = 8
iter = 11464, queue = 16093, heur = -8.0, depth = 8
iter = 11465, queue = 16094, heur = -8.0, depth = 8
iter = 11466, queue = 16097, heur = -8.0, depth = 8
iter = 11467, queue = 16098, heur = -8.0, depth = 8
iter = 11468, queue = 16100, heur = -8.0, depth = 8
iter = 11469, queue = 16099, heur = -8.0, depth = 8
iter = 11470, queue = 16102, heur = -8.0, depth = 8
iter = 11471, queue = 16103, heur = -8.0, depth = 8
iter = 11472, queue = 16104, heur = -8.0, depth = 8
iter = 11473, queue = 16105, heur = -8.0, depth = 8
iter = 11474, queue = 16105, heur = -8.0, depth = 9
iter = 11475, queue = 16106, heur = -8.0, depth = 8
iter = 11476, queue = 16107, heur = -8.0, depth = 8
iter = 11477, queue = 16109, heur = -8.0, depth = 8
iter = 11478, queue = 16112, heur = -8.0, depth = 8
iter = 11479, queue = 16111, heur = -8.0, depth = 8
iter = 11480, queue = 16110, heur = -8.0, depth = 8
iter = 11481, queue = 16112, heur = -8.0, depth = 8
iter = 11482, queue = 16113, heur = -8.0, depth = 8
iter = 11483, queue = 16115, heur = -8.0, depth = 8
iter = 11484, queue = 16116, heur = -8.0, depth = 8
iter = 11485, queue = 16117, heur = -8.0, depth = 8
iter = 11486, queue = 16116, heur = -8.0, depth = 8
iter = 11487, queue = 16119, heur = -8.0, depth = 8
iter = 11488, queue = 16121, heur = -8.0, depth = 8
iter = 11489, queue = 16124, heur = -8.0, depth = 8
iter = 11490, queue = 16127, heur = -8.0, depth = 8
iter = 11491, queue = 16128, heur = -8.0, depth = 8
iter = 11492, queue = 16129, heur = -8.0, depth = 8
iter = 11493, queue = 16130, heur = -8.0, depth = 8
iter = 11494, queue = 16132, heur = -8.0, depth = 8
iter = 11495, queue = 16135, heur = -8.0, depth = 8
iter = 11496, queue = 16135, heur = -8.0, depth = 8
iter = 11497, queue = 16138, heur = -8.0, depth = 8
iter = 11498, queue = 16139, heur = -8.0, depth = 8
iter = 11499, queue = 16140, heur = -8.0, depth = 8
iter = 11500, queue = 16141, heur = -8.0, depth = 8
iter = 11501, queue = 16142, heur = -8.0, depth = 8
iter = 11502, queue = 16145, heur = -8.0, depth = 8
iter = 11503, queue = 16146, heur = -8.0, depth = 8
iter = 11504, queue = 16147, heur = -8.0, depth = 8
iter = 11505, queue = 16146, heur = -8.0, depth = 8
iter = 11506, queue = 16148, heur = -8.0, depth = 8
iter = 11507, queue = 16151, heur = -8.0, depth = 8
```

```
iter = 11508, queue = 16151, heur = -8.0, depth = 8
iter = 11509, queue = 16153, heur = -8.0, depth = 8
iter = 11510, queue = 16153, heur = -8.0, depth = 8
iter = 11511, queue = 16154, heur = -8.0, depth = 8
iter = 11512, queue = 16154, heur = -8.0, depth = 8
iter = 11513, queue = 16155, heur = -8.0, depth = 8
iter = 11514, queue = 16158, heur = -8.0, depth = 8
iter = 11515, queue = 16158, heur = -8.0, depth = 8
iter = 11516, queue = 16161, heur = -8.0, depth = 8
iter = 11517, queue = 16162, heur = -8.0, depth = 8
iter = 11518, queue = 16163, heur = -8.0, depth = 8
iter = 11519, queue = 16163, heur = -8.0, depth = 8
iter = 11520, queue = 16166, heur = -8.0, depth = 8
iter = 11521, queue = 16168, heur = -8.0, depth = 8
iter = 11522, queue = 16167, heur = -8.0, depth = 8
iter = 11523, queue = 16167, heur = -8.0, depth = 8
iter = 11524, queue = 16166, heur = -8.0, depth = 8
iter = 11525, queue = 16169, heur = -8.0, depth = 8
iter = 11526, queue = 16172, heur = -8.0, depth = 8
iter = 11527, queue = 16174, heur = -8.0, depth = 8
iter = 11528, queue = 16174, heur = -8.0, depth = 8
iter = 11529, queue = 16175, heur = -8.0, depth = 8
iter = 11530, queue = 16178, heur = -8.0, depth = 8
iter = 11531, queue = 16177, heur = -8.0, depth = 8
iter = 11532, queue = 16178, heur = -8.0, depth = 8
iter = 11533, queue = 16179, heur = -8.0, depth = 8
iter = 11534, queue = 16181, heur = -8.0, depth = 8
iter = 11535, queue = 16182, heur = -8.0, depth = 8
iter = 11536, queue = 16184, heur = -8.0, depth = 8
iter = 11537, queue = 16186, heur = -8.0, depth = 8
iter = 11538, queue = 16189, heur = -8.0, depth = 8
iter = 11539, queue = 16192, heur = -8.0, depth = 8
iter = 11540, queue = 16195, heur = -8.0, depth = 8
iter = 11541, queue = 16196, heur = -8.0, depth = 8
iter = 11542, queue = 16199, heur = -8.0, depth = 8
iter = 11543, queue = 16201, heur = -8.0, depth = 8
iter = 11544, queue = 16204, heur = -8.0, depth = 8
iter = 11545, queue = 16205, heur = -8.0, depth = 8
iter = 11546, queue = 16206, heur = -8.0, depth = 8
iter = 11547, queue = 16209, heur = -8.0, depth = 8
iter = 11548, queue = 16210, heur = -8.0, depth = 8
iter = 11549, queue = 16212, heur = -8.0, depth = 8
iter = 11550, queue = 16212, heur = -8.0, depth = 9
iter = 11551, queue = 16213, heur = -8.0, depth = 8
iter = 11552, queue = 16214, heur = -8.0, depth = 8
iter = 11553, queue = 16215, heur = -8.0, depth = 10
iter = 11554, queue = 16216, heur = -8.0, depth = 8
iter = 11555, queue = 16219, heur = -8.0, depth = 8
iter = 11556, queue = 16220, heur = -8.0, depth = 8
iter = 11557, queue = 16222, heur = -8.0, depth = 8
iter = 11558, queue = 16222, heur = -8.0, depth = 8
iter = 11559, queue = 16223, heur = -8.0, depth = 8
iter = 11560, queue = 16224, heur = -8.0, depth = 8
iter = 11561, queue = 16223, heur = -8.0, depth = 8
iter = 11562, queue = 16226, heur = -8.0, depth = 8
iter = 11563, queue = 16229, heur = -8.0, depth = 8
iter = 11564, queue = 16228, heur = -8.0, depth = 8
iter = 11565, queue = 16230, heur = -8.0, depth = 8
iter = 11566, queue = 16233, heur = -8.0, depth = 8
```

```
iter = 11567, queue = 16236, heur = -8.0, depth = 8
iter = 11568, queue = 16235, heur = -8.0, depth = 8
iter = 11569, queue = 16237, heur = -8.0, depth = 8
iter = 11570, queue = 16240, heur = -8.0, depth = 8
iter = 11571, queue = 16241, heur = -8.0, depth = 8
iter = 11572, queue = 16241, heur = -8.0, depth = 8
iter = 11573, queue = 16244, heur = -8.0, depth = 8
iter = 11574, queue = 16245, heur = -8.0, depth = 8
iter = 11575, queue = 16244, heur = -8.0, depth = 8
iter = 11576, queue = 16246, heur = -8.0, depth = 8
iter = 11577, queue = 16247, heur = -8.0, depth = 8
iter = 11578, queue = 16246, heur = -8.0, depth = 8
iter = 11579, queue = 16247, heur = -8.0, depth = 8
iter = 11580, queue = 16248, heur = -8.0, depth = 8
iter = 11581, queue = 16247, heur = -8.0, depth = 8
iter = 11582, queue = 16248, heur = -8.0, depth = 8
iter = 11583, queue = 16247, heur = -8.0, depth = 8
iter = 11584, queue = 16247, heur = -8.0, depth = 8
iter = 11585, queue = 16250, heur = -8.0, depth = 8
iter = 11586, queue = 16251, heur = -8.0, depth = 8
iter = 11587, queue = 16252, heur = -8.0, depth = 8
iter = 11588, queue = 16255, heur = -8.0, depth = 8
iter = 11589, queue = 16257, heur = -8.0, depth = 8
iter = 11590, queue = 16258, heur = -8.0, depth = 8
iter = 11591, queue = 16261, heur = -8.0, depth = 8
iter = 11592, queue = 16264, heur = -8.0, depth = 8
iter = 11593, queue = 16263, heur = -8.0, depth = 8
iter = 11594, queue = 16262, heur = -8.0, depth = 8
iter = 11595, queue = 16264, heur = -8.0, depth = 8
iter = 11596, queue = 16265, heur = -8.0, depth = 8
iter = 11597, queue = 16266, heur = -8.0, depth = 10
iter = 11598, queue = 16267, heur = -8.0, depth = 8
iter = 11599, queue = 16270, heur = -8.0, depth = 8
iter = 11600, queue = 16271, heur = -8.0, depth = 8
iter = 11601, queue = 16273, heur = -8.0, depth = 8
iter = 11602, queue = 16276, heur = -8.0, depth = 8
iter = 11603, queue = 16279, heur = -8.0, depth = 8
iter = 11604, queue = 16281, heur = -8.0, depth = 8
iter = 11605, queue = 16283, heur = -8.0, depth = 8
iter = 11606, queue = 16285, heur = -8.0, depth = 8
iter = 11607, queue = 16286, heur = -8.0, depth = 8
iter = 11608, queue = 16287, heur = -8.0, depth = 8
iter = 11609, queue = 16287, heur = -8.0, depth = 8
iter = 11610, queue = 16288, heur = -8.0, depth = 8
iter = 11611, queue = 16291, heur = -8.0, depth = 8
iter = 11612, queue = 16293, heur = -8.0, depth = 9
iter = 11613, queue = 16294, heur = -8.0, depth = 9
iter = 11614, queue = 16295, heur = -8.0, depth = 8
iter = 11615, queue = 16296, heur = -8.0, depth = 10
iter = 11616, queue = 16297, heur = -8.0, depth = 8
iter = 11617, queue = 16300, heur = -8.0, depth = 8
iter = 11618, queue = 16302, heur = -8.0, depth = 11
iter = 11619, queue = 16303, heur = -8.0, depth = 8
iter = 11620, queue = 16305, heur = -8.0, depth = 8
iter = 11621, queue = 16306, heur = -8.0, depth = 8
iter = 11622, queue = 16307, heur = -8.0, depth = 8
iter = 11623, queue = 16308, heur = -8.0, depth = 8
iter = 11624, queue = 16307, heur = -8.0, depth = 8
iter = 11625, queue = 16309, heur = -8.0, depth = 8
```

```
iter = 11626, queue = 16308, heur = -8.0, depth = 9
iter = 11627, queue = 16309, heur = -8.0, depth = 8
iter = 11628, queue = 16310, heur = -8.0, depth = 8
iter = 11629, queue = 16311, heur = -8.0, depth = 10
iter = 11630, queue = 16312, heur = -8.0, depth = 8
iter = 11631, queue = 16314, heur = -8.0, depth = 8
iter = 11632, queue = 16314, heur = -8.0, depth = 8
iter = 11633, queue = 16313, heur = -8.0, depth = 8
iter = 11634, queue = 16313, heur = -8.0, depth = 8
iter = 11635, queue = 16314, heur = -8.0, depth = 8
iter = 11636, queue = 16315, heur = -8.0, depth = 8
iter = 11637, queue = 16316, heur = -8.0, depth = 8
iter = 11638, queue = 16317, heur = -8.0, depth = 8
iter = 11639, queue = 16317, heur = -8.0, depth = 8
iter = 11640, queue = 16320, heur = -8.0, depth = 8
iter = 11641, queue = 16319, heur = -8.0, depth = 8
iter = 11642, queue = 16320, heur = -8.0, depth = 8
iter = 11643, queue = 16321, heur = -8.0, depth = 8
iter = 11644, queue = 16320, heur = -8.0, depth = 8
iter = 11645, queue = 16322, heur = -8.0, depth = 8
iter = 11646, queue = 16323, heur = -8.0, depth = 8
iter = 11647, queue = 16326, heur = -8.0, depth = 8
iter = 11648, queue = 16327, heur = -8.0, depth = 8
iter = 11649, queue = 16329, heur = -8.0, depth = 9
iter = 11650, queue = 16330, heur = -8.0, depth = 8
iter = 11651, queue = 16332, heur = -8.0, depth = 8
iter = 11652, queue = 16331, heur = -8.0, depth = 8
iter = 11653, queue = 16332, heur = -8.0, depth = 8
iter = 11654, queue = 16334, heur = -8.0, depth = 8
iter = 11655, queue = 16336, heur = -8.0, depth = 9
iter = 11656, queue = 16337, heur = -8.0, depth = 8
iter = 11657, queue = 16338, heur = -8.0, depth = 8
iter = 11658, queue = 16339, heur = -8.0, depth = 10
iter = 11659, queue = 16340, heur = -8.0, depth = 8
iter = 11660, queue = 16341, heur = -8.0, depth = 8
iter = 11661, queue = 16342, heur = -8.0, depth = 11
iter = 11662, queue = 16343, heur = -8.0, depth = 8
iter = 11663, queue = 16346, heur = -8.0, depth = 8
iter = 11664, queue = 16349, heur = -8.0, depth = 8
iter = 11665, queue = 16350, heur = -8.0, depth = 8
iter = 11666, queue = 16353, heur = -8.0, depth = 8
iter = 11667, queue = 16354, heur = -8.0, depth = 8
iter = 11668, queue = 16354, heur = -8.0, depth = 9
iter = 11669, queue = 16354, heur = -8.0, depth = 8
iter = 11670, queue = 16355, heur = -8.0, depth = 8
iter = 11671, queue = 16355, heur = -8.0, depth = 8
iter = 11672, queue = 16356, heur = -8.0, depth = 8
iter = 11673, queue = 16359, heur = -8.0, depth = 8
iter = 11674, queue = 16361, heur = -8.0, depth = 9
iter = 11675, queue = 16362, heur = -8.0, depth = 8
iter = 11676, queue = 16363, heur = -8.0, depth = 9
iter = 11677, queue = 16366, heur = -8.0, depth = 8
iter = 11678, queue = 16366, heur = -8.0, depth = 8
iter = 11679, queue = 16367, heur = -8.0, depth = 10
iter = 11680, queue = 16370, heur = -8.0, depth = 8
iter = 11681, queue = 16372, heur = -8.0, depth = 8
iter = 11682, queue = 16375, heur = -8.0, depth = 8
iter = 11683, queue = 16376, heur = -8.0, depth = 8
iter = 11684, queue = 16377, heur = -8.0, depth = 8
```

```
iter = 11685, queue = 16380, heur = -8.0, depth = 8
iter = 11686, queue = 16382, heur = -8.0, depth = 8
iter = 11687, queue = 16382, heur = -8.0, depth = 8
iter = 11688, queue = 16381, heur = -8.0, depth = 8
iter = 11689, queue = 16384, heur = -8.0, depth = 8
iter = 11690, queue = 16387, heur = -8.0, depth = 8
iter = 11691, queue = 16388, heur = -8.0, depth = 8
iter = 11692, queue = 16389, heur = -8.0, depth = 8
iter = 11693, queue = 16388, heur = -8.0, depth = 8
iter = 11694, queue = 16389, heur = -8.0, depth = 8
iter = 11695, queue = 16389, heur = -8.0, depth = 8
iter = 11696, queue = 16390, heur = -8.0, depth = 8
iter = 11697, queue = 16391, heur = -8.0, depth = 8
iter = 11698, queue = 16394, heur = -8.0, depth = 9
iter = 11699, queue = 16397, heur = -8.0, depth = 8
iter = 11700, queue = 16400, heur = -8.0, depth = 8
iter = 11701, queue = 16403, heur = -8.0, depth = 8
iter = 11702, queue = 16404, heur = -8.0, depth = 8
iter = 11703, queue = 16405, heur = -8.0, depth = 8
iter = 11704, queue = 16406, heur = -8.0, depth = 8
iter = 11705, queue = 16407, heur = -8.0, depth = 8
iter = 11706, queue = 16410, heur = -8.0, depth = 9
iter = 11707, queue = 16411, heur = -8.0, depth = 8
iter = 11708, queue = 16412, heur = -8.0, depth = 8
iter = 11709, queue = 16413, heur = -8.0, depth = 8
iter = 11710, queue = 16412, heur = -8.0, depth = 8
iter = 11711, queue = 16413, heur = -8.0, depth = 8
iter = 11712, queue = 16413, heur = -8.0, depth = 8
iter = 11713, queue = 16414, heur = -8.0, depth = 8
iter = 11714, queue = 16414, heur = -8.0, depth = 8
iter = 11715, queue = 16417, heur = -8.0, depth = 8
iter = 11716, queue = 16418, heur = -8.0, depth = 8
iter = 11717, queue = 16417, heur = -8.0, depth = 8
iter = 11718, queue = 16420, heur = -8.0, depth = 8
iter = 11719, queue = 16421, heur = -8.0, depth = 8
iter = 11720, queue = 16421, heur = -8.0, depth = 8
iter = 11721, queue = 16422, heur = -8.0, depth = 8
iter = 11722, queue = 16425, heur = -8.0, depth = 8
iter = 11723, queue = 16428, heur = -8.0, depth = 8
iter = 11724, queue = 16429, heur = -8.0, depth = 8
iter = 11725, queue = 16430, heur = -8.0, depth = 8
iter = 11726, queue = 16431, heur = -8.0, depth = 8
iter = 11727, queue = 16434, heur = -8.0, depth = 8
iter = 11728, queue = 16435, heur = -8.0, depth = 8
iter = 11729, queue = 16438, heur = -8.0, depth = 8
iter = 11730, queue = 16440, heur = -8.0, depth = 8
iter = 11731, queue = 16441, heur = -8.0, depth = 8
iter = 11732, queue = 16440, heur = -8.0, depth = 8
iter = 11733, queue = 16442, heur = -8.0, depth = 8
iter = 11734, queue = 16444, heur = -8.0, depth = 8
iter = 11735, queue = 16445, heur = -8.0, depth = 8
iter = 11736, queue = 16448, heur = -8.0, depth = 8
iter = 11737, queue = 16449, heur = -8.0, depth = 8
iter = 11738, queue = 16451, heur = -8.0, depth = 8
iter = 11739, queue = 16450, heur = -8.0, depth = 8
iter = 11740, queue = 16451, heur = -8.0, depth = 8
iter = 11741, queue = 16452, heur = -8.0, depth = 8
iter = 11742, queue = 16453, heur = -8.0, depth = 8
iter = 11743, queue = 16454, heur = -8.0, depth = 8
```

```
iter = 11744, queue = 16453, heur = -8.0, depth = 8
iter = 11745, queue = 16455, heur = -8.0, depth = 8
iter = 11746, queue = 16457, heur = -8.0, depth = 8
iter = 11747, queue = 16458, heur = -8.0, depth = 8
iter = 11748, queue = 16459, heur = -8.0, depth = 8
iter = 11749, queue = 16462, heur = -8.0, depth = 8
iter = 11750, queue = 16465, heur = -8.0, depth = 8
iter = 11751, queue = 16467, heur = -8.0, depth = 8
iter = 11752, queue = 16468, heur = -8.0, depth = 8
iter = 11753, queue = 16469, heur = -8.0, depth = 8
iter = 11754, queue = 16468, heur = -8.0, depth = 8
iter = 11755, queue = 16471, heur = -8.0, depth = 8
iter = 11756, queue = 16474, heur = -8.0, depth = 8
iter = 11757, queue = 16475, heur = -8.0, depth = 8
iter = 11758, queue = 16478, heur = -8.0, depth = 8
iter = 11759, queue = 16480, heur = -8.0, depth = 9
iter = 11760, queue = 16482, heur = -8.0, depth = 8
iter = 11761, queue = 16483, heur = -8.0, depth = 8
iter = 11762, queue = 16484, heur = -8.0, depth = 8
iter = 11763, queue = 16487, heur = -8.0, depth = 8
iter = 11764, queue = 16488, heur = -8.0, depth = 8
iter = 11765, queue = 16491, heur = -8.0, depth = 8
iter = 11766, queue = 16491, heur = -8.0, depth = 8
iter = 11767, queue = 16493, heur = -8.0, depth = 8
iter = 11768, queue = 16496, heur = -8.0, depth = 8
iter = 11769, queue = 16497, heur = -8.0, depth = 8
iter = 11770, queue = 16496, heur = -8.0, depth = 8
iter = 11771, queue = 16498, heur = -8.0, depth = 8
iter = 11772, queue = 16500, heur = -8.0, depth = 8
iter = 11773, queue = 16501, heur = -8.0, depth = 8
iter = 11774, queue = 16501, heur = -8.0, depth = 8
iter = 11775, queue = 16504, heur = -8.0, depth = 8
iter = 11776, queue = 16506, heur = -8.0, depth = 8
iter = 11777, queue = 16507, heur = -8.0, depth = 8
iter = 11778, queue = 16507, heur = -8.0, depth = 8
iter = 11779, queue = 16510, heur = -8.0, depth = 8
iter = 11780, queue = 16511, heur = -8.0, depth = 8
iter = 11781, queue = 16514, heur = -8.0, depth = 8
iter = 11782, queue = 16515, heur = -8.0, depth = 8
iter = 11783, queue = 16516, heur = -8.0, depth = 8
iter = 11784, queue = 16519, heur = -8.0, depth = 8
iter = 11785, queue = 16519, heur = -8.0, depth = 8
iter = 11786, queue = 16522, heur = -8.0, depth = 8
iter = 11787, queue = 16522, heur = -8.0, depth = 8
iter = 11788, queue = 16523, heur = -8.0, depth = 8
iter = 11789, queue = 16524, heur = -8.0, depth = 8
iter = 11790, queue = 16524, heur = -8.0, depth = 8
iter = 11791, queue = 16525, heur = -8.0, depth = 8
iter = 11792, queue = 16526, heur = -8.0, depth = 8
iter = 11793, queue = 16527, heur = -8.0, depth = 8
iter = 11794, queue = 16528, heur = -8.0, depth = 8
iter = 11795, queue = 16529, heur = -8.0, depth = 8
iter = 11796, queue = 16531, heur = -8.0, depth = 8
iter = 11797, queue = 16532, heur = -8.0, depth = 10
iter = 11798, queue = 16533, heur = -8.0, depth = 8
iter = 11799, queue = 16536, heur = -8.0, depth = 8
iter = 11800, queue = 16538, heur = -8.0, depth = 8
iter = 11801, queue = 16539, heur = -8.0, depth = 8
iter = 11802, queue = 16540, heur = -8.0, depth = 8
```

```
iter = 11803, queue = 16541, heur = -8.0, depth = 8
iter = 11804, queue = 16542, heur = -8.0, depth = 8
iter = 11805, queue = 16545, heur = -8.0, depth = 8
iter = 11806, queue = 16546, heur = -8.0, depth = 8
iter = 11807, queue = 16547, heur = -8.0, depth = 8
iter = 11808, queue = 16550, heur = -8.0, depth = 8
iter = 11809, queue = 16551, heur = -8.0, depth = 8
iter = 11810, queue = 16554, heur = -8.0, depth = 9
iter = 11811, queue = 16553, heur = -8.0, depth = 8
iter = 11812, queue = 16555, heur = -8.0, depth = 8
iter = 11813, queue = 16555, heur = -8.0, depth = 8
iter = 11814, queue = 16555, heur = -8.0, depth = 8
iter = 11815, queue = 16555, heur = -8.0, depth = 8
iter = 11816, queue = 16558, heur = -8.0, depth = 8
iter = 11817, queue = 16561, heur = -8.0, depth = 8
iter = 11818, queue = 16562, heur = -8.0, depth = 8
iter = 11819, queue = 16561, heur = -8.0, depth = 8
iter = 11820, queue = 16562, heur = -8.0, depth = 8
iter = 11821, queue = 16563, heur = -8.0, depth = 8
iter = 11822, queue = 16565, heur = -8.0, depth = 8
iter = 11823, queue = 16565, heur = -8.0, depth = 8
iter = 11824, queue = 16564, heur = -8.0, depth = 8
iter = 11825, queue = 16566, heur = -8.0, depth = 8
iter = 11826, queue = 16567, heur = -8.0, depth = 8
iter = 11827, queue = 16569, heur = -8.0, depth = 8
iter = 11828, queue = 16572, heur = -8.0, depth = 8
iter = 11829, queue = 16573, heur = -8.0, depth = 8
iter = 11830, queue = 16574, heur = -8.0, depth = 8
iter = 11831, queue = 16577, heur = -8.0, depth = 8
iter = 11832, queue = 16578, heur = -8.0, depth = 8
iter = 11833, queue = 16577, heur = -8.0, depth = 8
iter = 11834, queue = 16578, heur = -8.0, depth = 8
iter = 11835, queue = 16580, heur = -8.0, depth = 8
iter = 11836, queue = 16579, heur = -8.0, depth = 8
iter = 11837, queue = 16582, heur = -8.0, depth = 8
iter = 11838, queue = 16582, heur = -8.0, depth = 8
iter = 11839, queue = 16585, heur = -8.0, depth = 8
iter = 11840, queue = 16586, heur = -8.0, depth = 8
iter = 11841, queue = 16589, heur = -8.0, depth = 8
iter = 11842, queue = 16589, heur = -8.0, depth = 8
iter = 11843, queue = 16590, heur = -8.0, depth = 8
iter = 11844, queue = 16590, heur = -8.0, depth = 8
iter = 11845, queue = 16591, heur = -8.0, depth = 8
iter = 11846, queue = 16592, heur = -8.0, depth = 8
iter = 11847, queue = 16593, heur = -8.0, depth = 8
iter = 11848, queue = 16592, heur = -8.0, depth = 8
iter = 11849, queue = 16594, heur = -8.0, depth = 8
iter = 11850, queue = 16595, heur = -8.0, depth = 8
iter = 11851, queue = 16595, heur = -8.0, depth = 8
iter = 11852, queue = 16596, heur = -8.0, depth = 8
iter = 11853, queue = 16597, heur = -8.0, depth = 8
iter = 11854, queue = 16598, heur = -8.0, depth = 8
iter = 11855, queue = 16597, heur = -8.0, depth = 8
iter = 11856, queue = 16598, heur = -8.0, depth = 8
iter = 11857, queue = 16599, heur = -8.0, depth = 8
iter = 11858, queue = 16600, heur = -8.0, depth = 8
iter = 11859, queue = 16601, heur = -8.0, depth = 8
iter = 11860, queue = 16604, heur = -8.0, depth = 8
iter = 11861, queue = 16606, heur = -8.0, depth = 8
```

```
iter = 11862, queue = 16609, heur = -8.0, depth = 8
iter = 11863, queue = 16611, heur = -8.0, depth = 8
iter = 11864, queue = 16612, heur = -8.0, depth = 8
iter = 11865, queue = 16613, heur = -8.0, depth = 8
iter = 11866, queue = 16615, heur = -8.0, depth = 8
iter = 11867, queue = 16618, heur = -8.0, depth = 8
iter = 11868, queue = 16620, heur = -8.0, depth = 8
iter = 11869, queue = 16619, heur = -8.0, depth = 8
iter = 11870, queue = 16620, heur = -8.0, depth = 8
iter = 11871, queue = 16622, heur = -8.0, depth = 8
iter = 11872, queue = 16623, heur = -8.0, depth = 8
iter = 11873, queue = 16624, heur = -8.0, depth = 8
iter = 11874, queue = 16625, heur = -8.0, depth = 8
iter = 11875, queue = 16626, heur = -8.0, depth = 8
iter = 11876, queue = 16627, heur = -8.0, depth = 8
iter = 11877, queue = 16626, heur = -8.0, depth = 8
iter = 11878, queue = 16628, heur = -8.0, depth = 8
iter = 11879, queue = 16630, heur = -8.0, depth = 8
iter = 11880, queue = 16630, heur = -8.0, depth = 8
iter = 11881, queue = 16631, heur = -8.0, depth = 8
iter = 11882, queue = 16632, heur = -8.0, depth = 8
iter = 11883, queue = 16632, heur = -8.0, depth = 8
iter = 11884, queue = 16633, heur = -8.0, depth = 8
iter = 11885, queue = 16634, heur = -8.0, depth = 8
iter = 11886, queue = 16635, heur = -8.0, depth = 8
iter = 11887, queue = 16636, heur = -8.0, depth = 8
iter = 11888, queue = 16636, heur = -8.0, depth = 8
iter = 11889, queue = 16636, heur = -8.0, depth = 8
iter = 11890, queue = 16637, heur = -8.0, depth = 8
iter = 11891, queue = 16637, heur = -8.0, depth = 8
iter = 11892, queue = 16636, heur = -8.0, depth = 8
iter = 11893, queue = 16638, heur = -8.0, depth = 8
iter = 11894, queue = 16641, heur = -8.0, depth = 8
iter = 11895, queue = 16644, heur = -8.0, depth = 8
iter = 11896, queue = 16644, heur = -8.0, depth = 8
iter = 11897, queue = 16646, heur = -8.0, depth = 8
iter = 11898, queue = 16647, heur = -8.0, depth = 8
iter = 11899, queue = 16648, heur = -8.0, depth = 8
iter = 11900, queue = 16649, heur = -8.0, depth = 8
iter = 11901, queue = 16649, heur = -8.0, depth = 8
iter = 11902, queue = 16650, heur = -8.0, depth = 8
iter = 11903, queue = 16653, heur = -8.0, depth = 8
iter = 11904, queue = 16655, heur = -8.0, depth = 8
iter = 11905, queue = 16655, heur = -8.0, depth = 8
iter = 11906, queue = 16655, heur = -8.0, depth = 8
iter = 11907, queue = 16655, heur = -8.0, depth = 8
iter = 11908, queue = 16655, heur = -8.0, depth = 8
iter = 11909, queue = 16656, heur = -8.0, depth = 8
iter = 11910, queue = 16655, heur = -8.0, depth = 8
iter = 11911, queue = 16656, heur = -8.0, depth = 8
iter = 11912, queue = 16657, heur = -8.0, depth = 8
iter = 11913, queue = 16660, heur = -8.0, depth = 8
iter = 11914, queue = 16661, heur = -8.0, depth = 8
iter = 11915, queue = 16662, heur = -8.0, depth = 8
iter = 11916, queue = 16663, heur = -8.0, depth = 8
iter = 11917, queue = 16662, heur = -8.0, depth = 8
iter = 11918, queue = 16664, heur = -8.0, depth = 8
iter = 11919, queue = 16664, heur = -8.0, depth = 8
iter = 11920, queue = 16665, heur = -8.0, depth = 8
```

```
iter = 11921, queue = 16666, heur = -8.0, depth = 8
iter = 11922, queue = 16669, heur = -8.0, depth = 8
iter = 11923, queue = 16669, heur = -8.0, depth = 8
iter = 11924, queue = 16672, heur = -8.0, depth = 8
iter = 11925, queue = 16672, heur = -8.0, depth = 8
iter = 11926, queue = 16673, heur = -8.0, depth = 8
iter = 11927, queue = 16676, heur = -8.0, depth = 8
iter = 11928, queue = 16679, heur = -8.0, depth = 8
iter = 11929, queue = 16680, heur = -8.0, depth = 8
iter = 11930, queue = 16679, heur = -8.0, depth = 8
iter = 11931, queue = 16680, heur = -8.0, depth = 8
iter = 11932, queue = 16682, heur = -8.0, depth = 8
iter = 11933, queue = 16685, heur = -8.0, depth = 8
iter = 11934, queue = 16686, heur = -8.0, depth = 8
iter = 11935, queue = 16686, heur = -8.0, depth = 8
iter = 11936, queue = 16689, heur = -8.0, depth = 8
iter = 11937, queue = 16688, heur = -8.0, depth = 8
iter = 11938, queue = 16690, heur = -8.0, depth = 8
iter = 11939, queue = 16692, heur = -8.0, depth = 8
iter = 11940, queue = 16692, heur = -8.0, depth = 8
iter = 11941, queue = 16693, heur = -8.0, depth = 8
iter = 11942, queue = 16694, heur = -8.0, depth = 8
iter = 11943, queue = 16695, heur = -8.0, depth = 8
iter = 11944, queue = 16694, heur = -8.0, depth = 8
iter = 11945, queue = 16694, heur = -8.0, depth = 8
iter = 11946, queue = 16696, heur = -8.0, depth = 8
iter = 11947, queue = 16698, heur = -8.0, depth = 8
iter = 11948, queue = 16701, heur = -8.0, depth = 8
iter = 11949, queue = 16702, heur = -8.0, depth = 8
iter = 11950, queue = 16705, heur = -8.0, depth = 8
iter = 11951, queue = 16706, heur = -8.0, depth = 8
iter = 11952, queue = 16706, heur = -8.0, depth = 8
iter = 11953, queue = 16709, heur = -8.0, depth = 8
iter = 11954, queue = 16710, heur = -8.0, depth = 8
iter = 11955, queue = 16711, heur = -8.0, depth = 8
iter = 11956, queue = 16712, heur = -8.0, depth = 8
iter = 11957, queue = 16713, heur = -8.0, depth = 8
iter = 11958, queue = 16714, heur = -8.0, depth = 8
iter = 11959, queue = 16715, heur = -8.0, depth = 8
iter = 11960, queue = 16716, heur = -8.0, depth = 8
iter = 11961, queue = 16716, heur = -8.0, depth = 8
iter = 11962, queue = 16716, heur = -8.0, depth = 8
iter = 11963, queue = 16719, heur = -8.0, depth = 8
iter = 11964, queue = 16720, heur = -8.0, depth = 8
iter = 11965, queue = 16721, heur = -8.0, depth = 8
iter = 11966, queue = 16722, heur = -8.0, depth = 8
iter = 11967, queue = 16725, heur = -8.0, depth = 8
iter = 11968, queue = 16726, heur = -8.0, depth = 8
iter = 11969, queue = 16725, heur = -8.0, depth = 8
iter = 11970, queue = 16725, heur = -8.0, depth = 8
iter = 11971, queue = 16726, heur = -8.0, depth = 8
iter = 11972, queue = 16728, heur = -8.0, depth = 8
iter = 11973, queue = 16731, heur = -8.0, depth = 8
iter = 11974, queue = 16732, heur = -8.0, depth = 8
iter = 11975, queue = 16733, heur = -8.0, depth = 8
iter = 11976, queue = 16734, heur = -8.0, depth = 8
iter = 11977, queue = 16737, heur = -8.0, depth = 8
iter = 11978, queue = 16736, heur = -8.0, depth = 8
iter = 11979, queue = 16737, heur = -8.0, depth = 8
```

```
iter = 11980, queue = 16736, heur = -8.0, depth = 8
iter = 11981, queue = 16737, heur = -8.0, depth = 8
iter = 11982, queue = 16738, heur = -8.0, depth = 9
iter = 11983, queue = 16739, heur = -8.0, depth = 8
iter = 11984, queue = 16739, heur = -8.0, depth = 8
iter = 11985, queue = 16740, heur = -8.0, depth = 8
iter = 11986, queue = 16740, heur = -8.0, depth = 8
iter = 11987, queue = 16743, heur = -8.0, depth = 8
iter = 11988, queue = 16746, heur = -8.0, depth = 8
iter = 11989, queue = 16747, heur = -8.0, depth = 8
iter = 11990, queue = 16748, heur = -8.0, depth = 8
iter = 11991, queue = 16750, heur = -8.0, depth = 8
iter = 11992, queue = 16751, heur = -8.0, depth = 8
iter = 11993, queue = 16752, heur = -8.0, depth = 8
iter = 11994, queue = 16753, heur = -8.0, depth = 9
iter = 11995, queue = 16755, heur = -8.0, depth = 8
iter = 11996, queue = 16756, heur = -8.0, depth = 8
iter = 11997, queue = 16757, heur = -8.0, depth = 8
iter = 11998, queue = 16758, heur = -8.0, depth = 8
iter = 11999, queue = 16758, heur = -8.0, depth = 8
iter = 12000, queue = 16758, heur = -8.0, depth = 8
iter = 12001, queue = 16757, heur = -8.0, depth = 8
iter = 12002, queue = 16758, heur = -8.0, depth = 8
iter = 12003, queue = 16759, heur = -8.0, depth = 8
iter = 12004, queue = 16761, heur = -8.0, depth = 8
iter = 12005, queue = 16760, heur = -8.0, depth = 8
iter = 12006, queue = 16763, heur = -8.0, depth = 8
iter = 12007, queue = 16766, heur = -8.0, depth = 8
iter = 12008, queue = 16767, heur = -8.0, depth = 8
iter = 12009, queue = 16768, heur = -8.0, depth = 8
iter = 12010, queue = 16771, heur = -8.0, depth = 8
iter = 12011, queue = 16772, heur = -8.0, depth = 8
iter = 12012, queue = 16773, heur = -8.0, depth = 8
iter = 12013, queue = 16774, heur = -8.0, depth = 8
iter = 12014, queue = 16775, heur = -8.0, depth = 8
iter = 12015, queue = 16778, heur = -8.0, depth = 8
iter = 12016, queue = 16779, heur = -8.0, depth = 8
iter = 12017, queue = 16781, heur = -8.0, depth = 8
iter = 12018, queue = 16783, heur = -8.0, depth = 8
iter = 12019, queue = 16784, heur = -8.0, depth = 8
iter = 12020, queue = 16784, heur = -8.0, depth = 8
iter = 12021, queue = 16787, heur = -8.0, depth = 8
iter = 12022, queue = 16786, heur = -8.0, depth = 8
iter = 12023, queue = 16786, heur = -8.0, depth = 8
iter = 12024, queue = 16787, heur = -8.0, depth = 8
iter = 12025, queue = 16790, heur = -8.0, depth = 8
iter = 12026, queue = 16791, heur = -8.0, depth = 8
iter = 12027, queue = 16792, heur = -8.0, depth = 8
iter = 12028, queue = 16793, heur = -8.0, depth = 8
iter = 12029, queue = 16794, heur = -8.0, depth = 8
iter = 12030, queue = 16794, heur = -8.0, depth = 8
iter = 12031, queue = 16795, heur = -8.0, depth = 8
iter = 12032, queue = 16797, heur = -8.0, depth = 8
iter = 12033, queue = 16798, heur = -8.0, depth = 8
iter = 12034, queue = 16801, heur = -8.0, depth = 8
iter = 12035, queue = 16802, heur = -8.0, depth = 8
iter = 12036, queue = 16801, heur = -8.0, depth = 8
iter = 12037, queue = 16802, heur = -8.0, depth = 8
iter = 12038, queue = 16805, heur = -8.0, depth = 8
```

```
iter = 12039, queue = 16806, heur = -8.0, depth = 8
iter = 12040, queue = 16807, heur = -8.0, depth = 8
iter = 12041, queue = 16808, heur = -8.0, depth = 8
iter = 12042, queue = 16808, heur = -8.0, depth = 8
iter = 12043, queue = 16809, heur = -8.0, depth = 8
iter = 12044, queue = 16810, heur = -8.0, depth = 8
iter = 12045, queue = 16811, heur = -8.0, depth = 8
iter = 12046, queue = 16814, heur = -8.0, depth = 8
iter = 12047, queue = 16817, heur = -8.0, depth = 8
iter = 12048, queue = 16818, heur = -8.0, depth = 8
iter = 12049, queue = 16819, heur = -8.0, depth = 8
iter = 12050, queue = 16820, heur = -8.0, depth = 8
iter = 12051, queue = 16823, heur = -8.0, depth = 8
iter = 12052, queue = 16824, heur = -8.0, depth = 8
iter = 12053, queue = 16825, heur = -8.0, depth = 8
iter = 12054, queue = 16826, heur = -8.0, depth = 8
iter = 12055, queue = 16827, heur = -8.0, depth = 8
iter = 12056, queue = 16830, heur = -8.0, depth = 8
iter = 12057, queue = 16831, heur = -8.0, depth = 8
iter = 12058, queue = 16831, heur = -8.0, depth = 8
iter = 12059, queue = 16831, heur = -8.0, depth = 8
iter = 12060, queue = 16832, heur = -8.0, depth = 8
iter = 12061, queue = 16833, heur = -8.0, depth = 8
iter = 12062, queue = 16835, heur = -8.0, depth = 8
iter = 12063, queue = 16836, heur = -8.0, depth = 8
iter = 12064, queue = 16838, heur = -8.0, depth = 8
iter = 12065, queue = 16841, heur = -8.0, depth = 8
iter = 12066, queue = 16842, heur = -8.0, depth = 8
iter = 12067, queue = 16842, heur = -8.0, depth = 8
iter = 12068, queue = 16845, heur = -8.0, depth = 8
iter = 12069, queue = 16846, heur = -8.0, depth = 8
iter = 12070, queue = 16848, heur = -8.0, depth = 8
iter = 12071, queue = 16849, heur = -8.0, depth = 8
iter = 12072, queue = 16852, heur = -8.0, depth = 8
iter = 12073, queue = 16853, heur = -8.0, depth = 8
iter = 12074, queue = 16855, heur = -8.0, depth = 8
iter = 12075, queue = 16856, heur = -8.0, depth = 8
iter = 12076, queue = 16859, heur = -8.0, depth = 8
iter = 12077, queue = 16860, heur = -8.0, depth = 8
iter = 12078, queue = 16863, heur = -8.0, depth = 8
iter = 12079, queue = 16866, heur = -8.0, depth = 8
iter = 12080, queue = 16867, heur = -8.0, depth = 8
iter = 12081, queue = 16868, heur = -8.0, depth = 8
iter = 12082, queue = 16869, heur = -8.0, depth = 8
iter = 12083, queue = 16868, heur = -8.0, depth = 8
iter = 12084, queue = 16870, heur = -8.0, depth = 8
iter = 12085, queue = 16873, heur = -8.0, depth = 8
iter = 12086, queue = 16874, heur = -8.0, depth = 8
iter = 12087, queue = 16875, heur = -8.0, depth = 8
iter = 12088, queue = 16876, heur = -8.0, depth = 8
iter = 12089, queue = 16878, heur = -8.0, depth = 8
iter = 12090, queue = 16880, heur = -8.0, depth = 8
iter = 12091, queue = 16882, heur = -8.0, depth = 8
iter = 12092, queue = 16883, heur = -8.0, depth = 8
iter = 12093, queue = 16883, heur = -8.0, depth = 8
iter = 12094, queue = 16884, heur = -8.0, depth = 8
iter = 12095, queue = 16885, heur = -8.0, depth = 8
iter = 12096, queue = 16886, heur = -8.0, depth = 8
iter = 12097, queue = 16888, heur = -8.0, depth = 8
```

```
iter = 12098, queue = 16890, heur = -8.0, depth = 8
iter = 12099, queue = 16892, heur = -8.0, depth = 8
iter = 12100, queue = 16893, heur = -8.0, depth = 8
iter = 12101, queue = 16896, heur = -8.0, depth = 8
iter = 12102, queue = 16897, heur = -8.0, depth = 8
iter = 12103, queue = 16898, heur = -8.0, depth = 8
iter = 12104, queue = 16897, heur = -8.0, depth = 8
iter = 12105, queue = 16900, heur = -8.0, depth = 8
iter = 12106, queue = 16903, heur = -8.0, depth = 8
iter = 12107, queue = 16904, heur = -8.0, depth = 8
iter = 12108, queue = 16905, heur = -8.0, depth = 8
iter = 12109, queue = 16907, heur = -8.0, depth = 8
iter = 12110, queue = 16910, heur = -8.0, depth = 8
iter = 12111, queue = 16911, heur = -8.0, depth = 8
iter = 12112, queue = 16911, heur = -8.0, depth = 8
iter = 12113, queue = 16912, heur = -8.0, depth = 8
iter = 12114, queue = 16913, heur = -8.0, depth = 8
iter = 12115, queue = 16916, heur = -8.0, depth = 8
iter = 12116, queue = 16916, heur = -8.0, depth = 8
iter = 12117, queue = 16917, heur = -8.0, depth = 8
iter = 12118, queue = 16920, heur = -8.0, depth = 8
iter = 12119, queue = 16922, heur = -8.0, depth = 8
iter = 12120, queue = 16923, heur = -8.0, depth = 8
iter = 12121, queue = 16923, heur = -8.0, depth = 8
iter = 12122, queue = 16924, heur = -8.0, depth = 8
iter = 12123, queue = 16925, heur = -8.0, depth = 8
iter = 12124, queue = 16928, heur = -8.0, depth = 8
iter = 12125, queue = 16929, heur = -8.0, depth = 8
iter = 12126, queue = 16932, heur = -8.0, depth = 8
iter = 12127, queue = 16932, heur = -8.0, depth = 8
iter = 12128, queue = 16933, heur = -8.0, depth = 8
iter = 12129, queue = 16934, heur = -8.0, depth = 8
iter = 12130, queue = 16933, heur = -8.0, depth = 8
iter = 12131, queue = 16934, heur = -8.0, depth = 8
iter = 12132, queue = 16937, heur = -8.0, depth = 8
iter = 12133, queue = 16938, heur = -8.0, depth = 8
iter = 12134, queue = 16941, heur = -8.0, depth = 8
iter = 12135, queue = 16942, heur = -8.0, depth = 8
iter = 12136, queue = 16942, heur = -8.0, depth = 8
iter = 12137, queue = 16942, heur = -8.0, depth = 8
iter = 12138, queue = 16945, heur = -8.0, depth = 8
iter = 12139, queue = 16946, heur = -8.0, depth = 8
iter = 12140, queue = 16947, heur = -8.0, depth = 8
iter = 12141, queue = 16947, heur = -8.0, depth = 8
iter = 12142, queue = 16948, heur = -8.0, depth = 8
iter = 12143, queue = 16949, heur = -8.0, depth = 8
iter = 12144, queue = 16952, heur = -8.0, depth = 8
iter = 12145, queue = 16955, heur = -8.0, depth = 8
iter = 12146, queue = 16958, heur = -8.0, depth = 8
iter = 12147, queue = 16961, heur = -8.0, depth = 8
iter = 12148, queue = 16961, heur = -8.0, depth = 8
iter = 12149, queue = 16962, heur = -8.0, depth = 8
iter = 12150, queue = 16965, heur = -8.0, depth = 8
iter = 12151, queue = 16965, heur = -8.0, depth = 8
iter = 12152, queue = 16966, heur = -8.0, depth = 8
iter = 12153, queue = 16967, heur = -8.0, depth = 8
iter = 12154, queue = 16968, heur = -8.0, depth = 8
iter = 12155, queue = 16971, heur = -8.0, depth = 8
iter = 12156, queue = 16974, heur = -8.0, depth = 8
```

```
iter = 12157, queue = 16975, heur = -8.0, depth = 8
iter = 12158, queue = 16978, heur = -8.0, depth = 8
iter = 12159, queue = 16981, heur = -8.0, depth = 8
iter = 12160, queue = 16982, heur = -8.0, depth = 8
iter = 12161, queue = 16985, heur = -8.0, depth = 8
iter = 12162, queue = 16986, heur = -8.0, depth = 8
iter = 12163, queue = 16987, heur = -8.0, depth = 8
iter = 12164, queue = 16988, heur = -8.0, depth = 8
iter = 12165, queue = 16987, heur = -8.0, depth = 8
iter = 12166, queue = 16988, heur = -8.0, depth = 8
iter = 12167, queue = 16991, heur = -8.0, depth = 8
iter = 12168, queue = 16992, heur = -8.0, depth = 8
iter = 12169, queue = 16991, heur = -8.0, depth = 8
iter = 12170, queue = 16990, heur = -8.0, depth = 8
iter = 12171, queue = 16992, heur = -8.0, depth = 8
iter = 12172, queue = 16993, heur = -8.0, depth = 8
iter = 12173, queue = 16995, heur = -8.0, depth = 8
iter = 12174, queue = 16995, heur = -8.0, depth = 8
iter = 12175, queue = 16995, heur = -8.0, depth = 8
iter = 12176, queue = 16998, heur = -8.0, depth = 8
iter = 12177, queue = 16999, heur = -8.0, depth = 8
iter = 12178, queue = 17002, heur = -8.0, depth = 8
iter = 12179, queue = 17003, heur = -8.0, depth = 8
iter = 12180, queue = 17006, heur = -8.0, depth = 8
iter = 12181, queue = 17005, heur = -8.0, depth = 8
iter = 12182, queue = 17006, heur = -8.0, depth = 8
iter = 12183, queue = 17008, heur = -8.0, depth = 8
iter = 12184, queue = 17011, heur = -8.0, depth = 8
iter = 12185, queue = 17014, heur = -8.0, depth = 8
iter = 12186, queue = 17015, heur = -8.0, depth = 8
iter = 12187, queue = 17016, heur = -8.0, depth = 8
iter = 12188, queue = 17015, heur = -8.0, depth = 8
iter = 12189, queue = 17016, heur = -8.0, depth = 8
iter = 12190, queue = 17017, heur = -8.0, depth = 8
iter = 12191, queue = 17020, heur = -8.0, depth = 8
iter = 12192, queue = 17022, heur = -8.0, depth = 8
iter = 12193, queue = 17023, heur = -8.0, depth = 8
iter = 12194, queue = 17025, heur = -8.0, depth = 8
iter = 12195, queue = 17024, heur = -8.0, depth = 8
iter = 12196, queue = 17024, heur = -8.0, depth = 8
iter = 12197, queue = 17027, heur = -8.0, depth = 8
iter = 12198, queue = 17028, heur = -8.0, depth = 8
iter = 12199, queue = 17029, heur = -8.0, depth = 8
iter = 12200, queue = 17030, heur = -8.0, depth = 8
iter = 12201, queue = 17029, heur = -8.0, depth = 8
iter = 12202, queue = 17030, heur = -8.0, depth = 9
iter = 12203, queue = 17031, heur = -8.0, depth = 8
iter = 12204, queue = 17031, heur = -8.0, depth = 8
iter = 12205, queue = 17032, heur = -8.0, depth = 8
iter = 12206, queue = 17034, heur = -8.0, depth = 10
iter = 12207, queue = 17036, heur = -8.0, depth = 8
iter = 12208, queue = 17037, heur = -8.0, depth = 8
iter = 12209, queue = 17036, heur = -8.0, depth = 8
iter = 12210, queue = 17037, heur = -8.0, depth = 8
iter = 12211, queue = 17038, heur = -8.0, depth = 8
iter = 12212, queue = 17037, heur = -8.0, depth = 8
iter = 12213, queue = 17038, heur = -8.0, depth = 8
iter = 12214, queue = 17039, heur = -8.0, depth = 8
iter = 12215, queue = 17040, heur = -8.0, depth = 8
```

```
iter = 12216, queue = 17041, heur = -8.0, depth = 8
iter = 12217, queue = 17041, heur = -8.0, depth = 8
iter = 12218, queue = 17042, heur = -8.0, depth = 8
iter = 12219, queue = 17043, heur = -8.0, depth = 8
iter = 12220, queue = 17043, heur = -8.0, depth = 8
iter = 12221, queue = 17045, heur = -8.0, depth = 8
iter = 12222, queue = 17047, heur = -8.0, depth = 8
iter = 12223, queue = 17048, heur = -8.0, depth = 8
iter = 12224, queue = 17051, heur = -8.0, depth = 8
iter = 12225, queue = 17054, heur = -8.0, depth = 8
iter = 12226, queue = 17054, heur = -8.0, depth = 8
iter = 12227, queue = 17056, heur = -8.0, depth = 9
iter = 12228, queue = 17056, heur = -8.0, depth = 8
iter = 12229, queue = 17059, heur = -8.0, depth = 8
iter = 12230, queue = 17062, heur = -8.0, depth = 8
iter = 12231, queue = 17062, heur = -8.0, depth = 8
iter = 12232, queue = 17063, heur = -8.0, depth = 8
iter = 12233, queue = 17062, heur = -8.0, depth = 8
iter = 12234, queue = 17062, heur = -8.0, depth = 8
iter = 12235, queue = 17063, heur = -8.0, depth = 8
iter = 12236, queue = 17063, heur = -8.0, depth = 8
iter = 12237, queue = 17063, heur = -8.0, depth = 8
iter = 12238, queue = 17065, heur = -8.0, depth = 8
iter = 12239, queue = 17065, heur = -8.0, depth = 8
iter = 12240, queue = 17068, heur = -8.0, depth = 8
iter = 12241, queue = 17071, heur = -8.0, depth = 8
iter = 12242, queue = 17073, heur = -8.0, depth = 8
iter = 12243, queue = 17073, heur = -8.0, depth = 8
iter = 12244, queue = 17076, heur = -8.0, depth = 8
iter = 12245, queue = 17075, heur = -8.0, depth = 8
iter = 12246, queue = 17074, heur = -8.0, depth = 8
iter = 12247, queue = 17076, heur = -8.0, depth = 10
iter = 12248, queue = 17078, heur = -8.0, depth = 8
iter = 12249, queue = 17078, heur = -8.0, depth = 8
iter = 12250, queue = 17080, heur = -8.0, depth = 8
iter = 12251, queue = 17082, heur = -8.0, depth = 8
iter = 12252, queue = 17085, heur = -8.0, depth = 8
iter = 12253, queue = 17087, heur = -8.0, depth = 8
iter = 12254, queue = 17088, heur = -8.0, depth = 8
iter = 12255, queue = 17089, heur = -8.0, depth = 8
iter = 12256, queue = 17090, heur = -8.0, depth = 8
iter = 12257, queue = 17090, heur = -8.0, depth = 8
iter = 12258, queue = 17091, heur = -8.0, depth = 8
iter = 12259, queue = 17092, heur = -8.0, depth = 8
iter = 12260, queue = 17094, heur = -8.0, depth = 8
iter = 12261, queue = 17095, heur = -8.0, depth = 8
iter = 12262, queue = 17096, heur = -8.0, depth = 8
iter = 12263, queue = 17096, heur = -8.0, depth = 8
iter = 12264, queue = 17098, heur = -8.0, depth = 12
iter = 12265, queue = 17097, heur = -8.0, depth = 8
iter = 12266, queue = 17098, heur = -8.0, depth = 8
iter = 12267, queue = 17098, heur = -8.0, depth = 8
iter = 12268, queue = 17098, heur = -8.0, depth = 8
iter = 12269, queue = 17099, heur = -8.0, depth = 8
iter = 12270, queue = 17100, heur = -8.0, depth = 8
iter = 12271, queue = 17103, heur = -8.0, depth = 8
iter = 12272, queue = 17106, heur = -8.0, depth = 8
iter = 12273, queue = 17109, heur = -8.0, depth = 8
iter = 12274, queue = 17109, heur = -8.0, depth = 8
```

```
iter = 12275, queue = 17112, heur = -8.0, depth = 8
iter = 12276, queue = 17114, heur = -8.0, depth = 8
iter = 12277, queue = 17117, heur = -8.0, depth = 8
iter = 12278, queue = 17118, heur = -8.0, depth = 8
iter = 12279, queue = 17119, heur = -8.0, depth = 8
iter = 12280, queue = 17119, heur = -8.0, depth = 8
iter = 12281, queue = 17122, heur = -8.0, depth = 8
iter = 12282, queue = 17125, heur = -8.0, depth = 8
iter = 12283, queue = 17126, heur = -8.0, depth = 8
iter = 12284, queue = 17129, heur = -8.0, depth = 8
iter = 12285, queue = 17130, heur = -8.0, depth = 8
iter = 12286, queue = 17129, heur = -8.0, depth = 8
iter = 12287, queue = 17128, heur = -8.0, depth = 8
iter = 12288, queue = 17128, heur = -8.0, depth = 8
iter = 12289, queue = 17129, heur = -8.0, depth = 8
iter = 12290, queue = 17131, heur = -8.0, depth = 8
iter = 12291, queue = 17131, heur = -8.0, depth = 8
iter = 12292, queue = 17131, heur = -8.0, depth = 8
iter = 12293, queue = 17132, heur = -8.0, depth = 8
iter = 12294, queue = 17132, heur = -8.0, depth = 8
iter = 12295, queue = 17131, heur = -8.0, depth = 8
iter = 12296, queue = 17132, heur = -8.0, depth = 8
iter = 12297, queue = 17134, heur = -8.0, depth = 8
iter = 12298, queue = 17134, heur = -8.0, depth = 8
iter = 12299, queue = 17135, heur = -8.0, depth = 8
iter = 12300, queue = 17136, heur = -8.0, depth = 8
iter = 12301, queue = 17138, heur = -8.0, depth = 8
iter = 12302, queue = 17140, heur = -8.0, depth = 8
iter = 12303, queue = 17141, heur = -8.0, depth = 8
iter = 12304, queue = 17140, heur = -8.0, depth = 8
iter = 12305, queue = 17142, heur = -8.0, depth = 8
iter = 12306, queue = 17144, heur = -8.0, depth = 8
iter = 12307, queue = 17145, heur = -8.0, depth = 8
iter = 12308, queue = 17146, heur = -8.0, depth = 8
iter = 12309, queue = 17145, heur = -8.0, depth = 8
iter = 12310, queue = 17147, heur = -8.0, depth = 8
iter = 12311, queue = 17149, heur = -8.0, depth = 8
iter = 12312, queue = 17148, heur = -8.0, depth = 8
iter = 12313, queue = 17149, heur = -8.0, depth = 8
iter = 12314, queue = 17149, heur = -8.0, depth = 8
iter = 12315, queue = 17150, heur = -8.0, depth = 8
iter = 12316, queue = 17151, heur = -8.0, depth = 8
iter = 12317, queue = 17154, heur = -8.0, depth = 9
iter = 12318, queue = 17155, heur = -8.0, depth = 8
iter = 12319, queue = 17154, heur = -8.0, depth = 8
iter = 12320, queue = 17154, heur = -8.0, depth = 8
iter = 12321, queue = 17154, heur = -8.0, depth = 8
iter = 12322, queue = 17157, heur = -8.0, depth = 8
iter = 12323, queue = 17157, heur = -8.0, depth = 8
iter = 12324, queue = 17160, heur = -8.0, depth = 8
iter = 12325, queue = 17162, heur = -8.0, depth = 8
iter = 12326, queue = 17163, heur = -8.0, depth = 8
iter = 12327, queue = 17165, heur = -8.0, depth = 8
iter = 12328, queue = 17168, heur = -8.0, depth = 8
iter = 12329, queue = 17169, heur = -8.0, depth = 8
iter = 12330, queue = 17170, heur = -8.0, depth = 8
iter = 12331, queue = 17169, heur = -8.0, depth = 8
iter = 12332, queue = 17171, heur = -8.0, depth = 8
iter = 12333, queue = 17172, heur = -8.0, depth = 8
```

```
iter = 12334, queue = 17173, heur = -8.0, depth = 8
iter = 12335, queue = 17172, heur = -8.0, depth = 8
iter = 12336, queue = 17175, heur = -8.0, depth = 8
iter = 12337, queue = 17176, heur = -8.0, depth = 8
iter = 12338, queue = 17175, heur = -8.0, depth = 8
iter = 12339, queue = 17175, heur = -8.0, depth = 8
iter = 12340, queue = 17175, heur = -8.0, depth = 8
iter = 12341, queue = 17176, heur = -8.0, depth = 8
iter = 12342, queue = 17178, heur = -8.0, depth = 8
iter = 12343, queue = 17181, heur = -8.0, depth = 8
iter = 12344, queue = 17184, heur = -8.0, depth = 8
iter = 12345, queue = 17185, heur = -8.0, depth = 8
iter = 12346, queue = 17184, heur = -8.0, depth = 8
iter = 12347, queue = 17185, heur = -8.0, depth = 8
iter = 12348, queue = 17186, heur = -8.0, depth = 8
iter = 12349, queue = 17187, heur = -8.0, depth = 8
iter = 12350, queue = 17190, heur = -8.0, depth = 8
iter = 12351, queue = 17191, heur = -8.0, depth = 8
iter = 12352, queue = 17192, heur = -8.0, depth = 8
iter = 12353, queue = 17193, heur = -8.0, depth = 8
iter = 12354, queue = 17196, heur = -8.0, depth = 8
iter = 12355, queue = 17195, heur = -8.0, depth = 9
iter = 12356, queue = 17196, heur = -8.0, depth = 8
iter = 12357, queue = 17197, heur = -8.0, depth = 8
iter = 12358, queue = 17198, heur = -8.0, depth = 8
iter = 12359, queue = 17199, heur = -8.0, depth = 8
iter = 12360, queue = 17202, heur = -8.0, depth = 8
iter = 12361, queue = 17201, heur = -8.0, depth = 8
iter = 12362, queue = 17202, heur = -8.0, depth = 8
iter = 12363, queue = 17203, heur = -8.0, depth = 8
iter = 12364, queue = 17204, heur = -8.0, depth = 8
iter = 12365, queue = 17203, heur = -8.0, depth = 8
iter = 12366, queue = 17205, heur = -8.0, depth = 8
iter = 12367, queue = 17206, heur = -8.0, depth = 8
iter = 12368, queue = 17207, heur = -8.0, depth = 8
iter = 12369, queue = 17207, heur = -8.0, depth = 8
iter = 12370, queue = 17208, heur = -8.0, depth = 8
iter = 12371, queue = 17209, heur = -8.0, depth = 8
iter = 12372, queue = 17210, heur = -8.0, depth = 8
iter = 12373, queue = 17211, heur = -8.0, depth = 8
iter = 12374, queue = 17212, heur = -8.0, depth = 8
iter = 12375, queue = 17213, heur = -8.0, depth = 8
iter = 12376, queue = 17216, heur = -8.0, depth = 8
iter = 12377, queue = 17216, heur = -8.0, depth = 8
iter = 12378, queue = 17215, heur = -8.0, depth = 8
iter = 12379, queue = 17216, heur = -8.0, depth = 8
iter = 12380, queue = 17215, heur = -8.0, depth = 8
iter = 12381, queue = 17215, heur = -8.0, depth = 8
iter = 12382, queue = 17214, heur = -8.0, depth = 8
iter = 12383, queue = 17216, heur = -8.0, depth = 8
iter = 12384, queue = 17218, heur = -8.0, depth = 8
iter = 12385, queue = 17221, heur = -8.0, depth = 8
iter = 12386, queue = 17222, heur = -8.0, depth = 8
iter = 12387, queue = 17223, heur = -8.0, depth = 8
iter = 12388, queue = 17223, heur = -8.0, depth = 9
iter = 12389, queue = 17224, heur = -8.0, depth = 8
iter = 12390, queue = 17226, heur = -8.0, depth = 8
iter = 12391, queue = 17227, heur = -8.0, depth = 8
iter = 12392, queue = 17228, heur = -8.0, depth = 8
```

```
iter = 12393, queue = 17230, heur = -8.0, depth = 8
iter = 12394, queue = 17233, heur = -8.0, depth = 9
iter = 12395, queue = 17233, heur = -8.0, depth = 8
iter = 12396, queue = 17235, heur = -8.0, depth = 8
iter = 12397, queue = 17238, heur = -8.0, depth = 8
iter = 12398, queue = 17239, heur = -8.0, depth = 8
iter = 12399, queue = 17240, heur = -8.0, depth = 8
iter = 12400, queue = 17242, heur = -8.0, depth = 8
iter = 12401, queue = 17243, heur = -8.0, depth = 8
iter = 12402, queue = 17244, heur = -8.0, depth = 8
iter = 12403, queue = 17245, heur = -8.0, depth = 8
iter = 12404, queue = 17246, heur = -8.0, depth = 8
iter = 12405, queue = 17249, heur = -8.0, depth = 8
iter = 12406, queue = 17252, heur = -8.0, depth = 8
iter = 12407, queue = 17255, heur = -8.0, depth = 8
iter = 12408, queue = 17258, heur = -8.0, depth = 8
iter = 12409, queue = 17260, heur = -8.0, depth = 8
iter = 12410, queue = 17261, heur = -8.0, depth = 8
iter = 12411, queue = 17262, heur = -8.0, depth = 8
iter = 12412, queue = 17265, heur = -8.0, depth = 8
iter = 12413, queue = 17267, heur = -8.0, depth = 8
iter = 12414, queue = 17268, heur = -8.0, depth = 8
iter = 12415, queue = 17268, heur = -8.0, depth = 8
iter = 12416, queue = 17271, heur = -8.0, depth = 8
iter = 12417, queue = 17274, heur = -8.0, depth = 8
iter = 12418, queue = 17273, heur = -8.0, depth = 8
iter = 12419, queue = 17275, heur = -8.0, depth = 8
iter = 12420, queue = 17276, heur = -8.0, depth = 8
iter = 12421, queue = 17277, heur = -8.0, depth = 8
iter = 12422, queue = 17279, heur = -8.0, depth = 8
iter = 12423, queue = 17279, heur = -8.0, depth = 8
iter = 12424, queue = 17282, heur = -8.0, depth = 8
iter = 12425, queue = 17283, heur = -8.0, depth = 8
iter = 12426, queue = 17283, heur = -8.0, depth = 8
iter = 12427, queue = 17283, heur = -8.0, depth = 8
iter = 12428, queue = 17284, heur = -8.0, depth = 8
iter = 12429, queue = 17287, heur = -8.0, depth = 8
iter = 12430, queue = 17289, heur = -8.0, depth = 8
iter = 12431, queue = 17290, heur = -8.0, depth = 8
iter = 12432, queue = 17291, heur = -8.0, depth = 8
iter = 12433, queue = 17293, heur = -8.0, depth = 8
iter = 12434, queue = 17296, heur = -8.0, depth = 8
iter = 12435, queue = 17299, heur = -8.0, depth = 8
iter = 12436, queue = 17300, heur = -8.0, depth = 8
iter = 12437, queue = 17301, heur = -8.0, depth = 8
iter = 12438, queue = 17301, heur = -8.0, depth = 8
iter = 12439, queue = 17300, heur = -8.0, depth = 8
iter = 12440, queue = 17301, heur = -8.0, depth = 8
iter = 12441, queue = 17302, heur = -8.0, depth = 8
iter = 12442, queue = 17302, heur = -8.0, depth = 8
iter = 12443, queue = 17304, heur = -8.0, depth = 8
iter = 12444, queue = 17307, heur = -8.0, depth = 8
iter = 12445, queue = 17310, heur = -8.0, depth = 8
iter = 12446, queue = 17313, heur = -8.0, depth = 8
iter = 12447, queue = 17312, heur = -8.0, depth = 8
iter = 12448, queue = 17311, heur = -8.0, depth = 8
iter = 12449, queue = 17312, heur = -8.0, depth = 8
iter = 12450, queue = 17315, heur = -8.0, depth = 8
iter = 12451, queue = 17316, heur = -8.0, depth = 8
```

```
iter = 12452, queue = 17317, heur = -8.0, depth = 8
iter = 12453, queue = 17320, heur = -8.0, depth = 8
iter = 12454, queue = 17323, heur = -8.0, depth = 8
iter = 12455, queue = 17326, heur = -8.0, depth = 8
iter = 12456, queue = 17329, heur = -8.0, depth = 8
iter = 12457, queue = 17331, heur = -8.0, depth = 8
iter = 12458, queue = 17331, heur = -8.0, depth = 8
iter = 12459, queue = 17332, heur = -8.0, depth = 8
iter = 12460, queue = 17335, heur = -8.0, depth = 8
iter = 12461, queue = 17335, heur = -8.0, depth = 8
iter = 12462, queue = 17337, heur = -8.0, depth = 8
iter = 12463, queue = 17337, heur = -8.0, depth = 8
iter = 12464, queue = 17340, heur = -8.0, depth = 8
iter = 12465, queue = 17342, heur = -8.0, depth = 8
iter = 12466, queue = 17345, heur = -8.0, depth = 8
iter = 12467, queue = 17346, heur = -8.0, depth = 8
iter = 12468, queue = 17348, heur = -8.0, depth = 8
iter = 12469, queue = 17349, heur = -8.0, depth = 8
iter = 12470, queue = 17350, heur = -8.0, depth = 8
iter = 12471, queue = 17351, heur = -8.0, depth = 8
iter = 12472, queue = 17352, heur = -8.0, depth = 8
iter = 12473, queue = 17353, heur = -8.0, depth = 8
iter = 12474, queue = 17353, heur = -8.0, depth = 8
iter = 12475, queue = 17353, heur = -8.0, depth = 8
iter = 12476, queue = 17354, heur = -8.0, depth = 8
iter = 12477, queue = 17357, heur = -8.0, depth = 8
iter = 12478, queue = 17360, heur = -8.0, depth = 8
iter = 12479, queue = 17361, heur = -8.0, depth = 8
iter = 12480, queue = 17364, heur = -8.0, depth = 8
iter = 12481, queue = 17366, heur = -8.0, depth = 8
iter = 12482, queue = 17368, heur = -8.0, depth = 8
iter = 12483, queue = 17369, heur = -8.0, depth = 8
iter = 12484, queue = 17372, heur = -8.0, depth = 8
iter = 12485, queue = 17375, heur = -8.0, depth = 8
iter = 12486, queue = 17375, heur = -8.0, depth = 8
iter = 12487, queue = 17376, heur = -8.0, depth = 8
iter = 12488, queue = 17379, heur = -8.0, depth = 8
iter = 12489, queue = 17382, heur = -8.0, depth = 8
iter = 12490, queue = 17382, heur = -8.0, depth = 8
iter = 12491, queue = 17381, heur = -8.0, depth = 8
iter = 12492, queue = 17384, heur = -8.0, depth = 8
iter = 12493, queue = 17387, heur = -8.0, depth = 8
iter = 12494, queue = 17388, heur = -8.0, depth = 8
iter = 12495, queue = 17391, heur = -8.0, depth = 8
iter = 12496, queue = 17391, heur = -8.0, depth = 8
iter = 12497, queue = 17393, heur = -8.0, depth = 8
iter = 12498, queue = 17394, heur = -8.0, depth = 8
iter = 12499, queue = 17397, heur = -8.0, depth = 8
iter = 12500, queue = 17400, heur = -8.0, depth = 8
iter = 12501, queue = 17401, heur = -8.0, depth = 8
iter = 12502, queue = 17402, heur = -8.0, depth = 8
iter = 12503, queue = 17402, heur = -8.0, depth = 8
iter = 12504, queue = 17403, heur = -8.0, depth = 8
iter = 12505, queue = 17405, heur = -8.0, depth = 8
iter = 12506, queue = 17407, heur = -8.0, depth = 8
iter = 12507, queue = 17408, heur = -8.0, depth = 8
iter = 12508, queue = 17411, heur = -8.0, depth = 8
iter = 12509, queue = 17411, heur = -8.0, depth = 8
iter = 12510, queue = 17412, heur = -8.0, depth = 8
```

```
iter = 12511, queue = 17415, heur = -8.0, depth = 8
iter = 12512, queue = 17416, heur = -8.0, depth = 8
iter = 12513, queue = 17418, heur = -8.0, depth = 8
iter = 12514, queue = 17420, heur = -8.0, depth = 8
iter = 12515, queue = 17421, heur = -8.0, depth = 8
iter = 12516, queue = 17424, heur = -8.0, depth = 8
iter = 12517, queue = 17427, heur = -8.0, depth = 8
iter = 12518, queue = 17426, heur = -8.0, depth = 11
iter = 12519, queue = 17428, heur = -8.0, depth = 8
iter = 12520, queue = 17431, heur = -8.0, depth = 9
iter = 12521, queue = 17432, heur = -8.0, depth = 8
iter = 12522, queue = 17433, heur = -8.0, depth = 8
iter = 12523, queue = 17435, heur = -8.0, depth = 8
iter = 12524, queue = 17438, heur = -8.0, depth = 8
iter = 12525, queue = 17439, heur = -8.0, depth = 8
iter = 12526, queue = 17440, heur = -8.0, depth = 8
iter = 12527, queue = 17439, heur = -8.0, depth = 8
iter = 12528, queue = 17441, heur = -8.0, depth = 8
iter = 12529, queue = 17442, heur = -8.0, depth = 8
iter = 12530, queue = 17443, heur = -8.0, depth = 8
iter = 12531, queue = 17444, heur = -8.0, depth = 8
iter = 12532, queue = 17445, heur = -8.0, depth = 8
iter = 12533, queue = 17446, heur = -8.0, depth = 8
iter = 12534, queue = 17445, heur = -8.0, depth = 8
iter = 12535, queue = 17446, heur = -8.0, depth = 8
iter = 12536, queue = 17446, heur = -8.0, depth = 8
iter = 12537, queue = 17446, heur = -8.0, depth = 8
iter = 12538, queue = 17449, heur = -8.0, depth = 9
iter = 12539, queue = 17448, heur = -8.0, depth = 8
iter = 12540, queue = 17451, heur = -8.0, depth = 8
iter = 12541, queue = 17453, heur = -8.0, depth = 8
iter = 12542, queue = 17455, heur = -8.0, depth = 9
iter = 12543, queue = 17455, heur = -8.0, depth = 8
iter = 12544, queue = 17458, heur = -8.0, depth = 8
iter = 12545, queue = 17460, heur = -8.0, depth = 8
iter = 12546, queue = 17463, heur = -8.0, depth = 8
iter = 12547, queue = 17466, heur = -8.0, depth = 8
iter = 12548, queue = 17468, heur = -8.0, depth = 8
iter = 12549, queue = 17467, heur = -8.0, depth = 8
iter = 12550, queue = 17470, heur = -8.0, depth = 8
iter = 12551, queue = 17471, heur = -8.0, depth = 8
iter = 12552, queue = 17473, heur = -8.0, depth = 8
iter = 12553, queue = 17475, heur = -8.0, depth = 8
iter = 12554, queue = 17476, heur = -8.0, depth = 8
iter = 12555, queue = 17478, heur = -8.0, depth = 8
iter = 12556, queue = 17479, heur = -8.0, depth = 8
iter = 12557, queue = 17478, heur = -8.0, depth = 8
iter = 12558, queue = 17479, heur = -8.0, depth = 8
iter = 12559, queue = 17482, heur = -8.0, depth = 8
iter = 12560, queue = 17483, heur = -8.0, depth = 8
iter = 12561, queue = 17486, heur = -8.0, depth = 9
iter = 12562, queue = 17486, heur = -8.0, depth = 8
iter = 12563, queue = 17487, heur = -8.0, depth = 8
iter = 12564, queue = 17488, heur = -8.0, depth = 8
iter = 12565, queue = 17489, heur = -8.0, depth = 8
iter = 12566, queue = 17490, heur = -8.0, depth = 8
iter = 12567, queue = 17493, heur = -8.0, depth = 8
iter = 12568, queue = 17492, heur = -8.0, depth = 8
iter = 12569, queue = 17495, heur = -8.0, depth = 8
```

```
iter = 12570, queue = 17495, heur = -8.0, depth = 8
iter = 12571, queue = 17497, heur = -8.0, depth = 11
iter = 12572, queue = 17498, heur = -8.0, depth = 8
iter = 12573, queue = 17501, heur = -8.0, depth = 8
iter = 12574, queue = 17502, heur = -8.0, depth = 8
iter = 12575, queue = 17503, heur = -8.0, depth = 8
iter = 12576, queue = 17504, heur = -8.0, depth = 8
iter = 12577, queue = 17505, heur = -8.0, depth = 8
iter = 12578, queue = 17504, heur = -8.0, depth = 8
iter = 12579, queue = 17505, heur = -8.0, depth = 8
iter = 12580, queue = 17508, heur = -8.0, depth = 8
iter = 12581, queue = 17507, heur = -8.0, depth = 8
iter = 12582, queue = 17508, heur = -8.0, depth = 8
iter = 12583, queue = 17509, heur = -8.0, depth = 8
iter = 12584, queue = 17510, heur = -8.0, depth = 8
iter = 12585, queue = 17510, heur = -8.0, depth = 8
iter = 12586, queue = 17512, heur = -8.0, depth = 8
iter = 12587, queue = 17513, heur = -8.0, depth = 8
iter = 12588, queue = 17514, heur = -8.0, depth = 8
iter = 12589, queue = 17513, heur = -8.0, depth = 8
iter = 12590, queue = 17514, heur = -8.0, depth = 8
iter = 12591, queue = 17515, heur = -8.0, depth = 8
iter = 12592, queue = 17518, heur = -8.0, depth = 8
iter = 12593, queue = 17521, heur = -8.0, depth = 8
iter = 12594, queue = 17520, heur = -8.0, depth = 8
iter = 12595, queue = 17521, heur = -8.0, depth = 8
iter = 12596, queue = 17523, heur = -8.0, depth = 8
iter = 12597, queue = 17522, heur = -8.0, depth = 8
iter = 12598, queue = 17523, heur = -8.0, depth = 8
iter = 12599, queue = 17524, heur = -8.0, depth = 8
iter = 12600, queue = 17527, heur = -8.0, depth = 8
iter = 12601, queue = 17530, heur = -8.0, depth = 8
iter = 12602, queue = 17531, heur = -8.0, depth = 8
iter = 12603, queue = 17530, heur = -8.0, depth = 8
iter = 12604, queue = 17532, heur = -8.0, depth = 8
iter = 12605, queue = 17533, heur = -8.0, depth = 8
iter = 12606, queue = 17532, heur = -8.0, depth = 8
iter = 12607, queue = 17533, heur = -8.0, depth = 8
iter = 12608, queue = 17535, heur = -8.0, depth = 8
iter = 12609, queue = 17536, heur = -8.0, depth = 8
iter = 12610, queue = 17536, heur = -8.0, depth = 8
iter = 12611, queue = 17535, heur = -8.0, depth = 8
iter = 12612, queue = 17534, heur = -8.0, depth = 8
iter = 12613, queue = 17534, heur = -8.0, depth = 8
iter = 12614, queue = 17535, heur = -8.0, depth = 8
iter = 12615, queue = 17536, heur = -8.0, depth = 8
iter = 12616, queue = 17537, heur = -8.0, depth = 8
iter = 12617, queue = 17538, heur = -8.0, depth = 8
iter = 12618, queue = 17539, heur = -8.0, depth = 8
iter = 12619, queue = 17540, heur = -8.0, depth = 8
iter = 12620, queue = 17541, heur = -8.0, depth = 8
iter = 12621, queue = 17542, heur = -8.0, depth = 8
iter = 12622, queue = 17541, heur = -8.0, depth = 8
iter = 12623, queue = 17544, heur = -8.0, depth = 8
iter = 12624, queue = 17545, heur = -8.0, depth = 8
iter = 12625, queue = 17546, heur = -8.0, depth = 8
iter = 12626, queue = 17545, heur = -8.0, depth = 8
iter = 12627, queue = 17546, heur = -8.0, depth = 8
iter = 12628, queue = 17547, heur = -8.0, depth = 8
```

```
iter = 12629, queue = 17548, heur = -8.0, depth = 8
iter = 12630, queue = 17549, heur = -8.0, depth = 8
iter = 12631, queue = 17548, heur = -8.0, depth = 8
iter = 12632, queue = 17549, heur = -8.0, depth = 8
iter = 12633, queue = 17550, heur = -8.0, depth = 8
iter = 12634, queue = 17552, heur = -8.0, depth = 8
iter = 12635, queue = 17553, heur = -8.0, depth = 8
iter = 12636, queue = 17554, heur = -8.0, depth = 8
iter = 12637, queue = 17555, heur = -8.0, depth = 8
iter = 12638, queue = 17556, heur = -8.0, depth = 8
iter = 12639, queue = 17558, heur = -8.0, depth = 8
iter = 12640, queue = 17560, heur = -8.0, depth = 8
iter = 12641, queue = 17561, heur = -8.0, depth = 8
iter = 12642, queue = 17562, heur = -8.0, depth = 8
iter = 12643, queue = 17564, heur = -8.0, depth = 8
iter = 12644, queue = 17565, heur = -8.0, depth = 8
iter = 12645, queue = 17566, heur = -8.0, depth = 8
iter = 12646, queue = 17567, heur = -8.0, depth = 8
iter = 12647, queue = 17568, heur = -8.0, depth = 8
iter = 12648, queue = 17567, heur = -8.0, depth = 8
iter = 12649, queue = 17568, heur = -8.0, depth = 8
iter = 12650, queue = 17568, heur = -8.0, depth = 8
iter = 12651, queue = 17569, heur = -8.0, depth = 8
iter = 12652, queue = 17568, heur = -8.0, depth = 8
iter = 12653, queue = 17571, heur = -8.0, depth = 8
iter = 12654, queue = 17574, heur = -8.0, depth = 8
iter = 12655, queue = 17575, heur = -8.0, depth = 8
iter = 12656, queue = 17578, heur = -8.0, depth = 8
iter = 12657, queue = 17579, heur = -8.0, depth = 8
iter = 12658, queue = 17582, heur = -8.0, depth = 8
iter = 12659, queue = 17584, heur = -8.0, depth = 8
iter = 12660, queue = 17587, heur = -8.0, depth = 8
iter = 12661, queue = 17589, heur = -8.0, depth = 8
iter = 12662, queue = 17590, heur = -8.0, depth = 8
iter = 12663, queue = 17593, heur = -8.0, depth = 8
iter = 12664, queue = 17594, heur = -8.0, depth = 8
iter = 12665, queue = 17596, heur = -8.0, depth = 8
iter = 12666, queue = 17599, heur = -8.0, depth = 8
iter = 12667, queue = 17599, heur = -8.0, depth = 8
iter = 12668, queue = 17602, heur = -8.0, depth = 8
iter = 12669, queue = 17602, heur = -8.0, depth = 8
iter = 12670, queue = 17605, heur = -8.0, depth = 8
iter = 12671, queue = 17606, heur = -8.0, depth = 8
iter = 12672, queue = 17607, heur = -8.0, depth = 8
iter = 12673, queue = 17610, heur = -8.0, depth = 8
iter = 12674, queue = 17611, heur = -8.0, depth = 8
iter = 12675, queue = 17612, heur = -8.0, depth = 8
iter = 12676, queue = 17611, heur = -8.0, depth = 8
iter = 12677, queue = 17612, heur = -8.0, depth = 8
iter = 12678, queue = 17615, heur = -8.0, depth = 8
iter = 12679, queue = 17614, heur = -8.0, depth = 8
iter = 12680, queue = 17614, heur = -8.0, depth = 8
iter = 12681, queue = 17617, heur = -8.0, depth = 8
iter = 12682, queue = 17620, heur = -8.0, depth = 8
iter = 12683, queue = 17621, heur = -8.0, depth = 8
iter = 12684, queue = 17622, heur = -8.0, depth = 8
iter = 12685, queue = 17623, heur = -8.0, depth = 9
iter = 12686, queue = 17624, heur = -8.0, depth = 8
iter = 12687, queue = 17624, heur = -8.0, depth = 8
```

```
iter = 12688, queue = 17627, heur = -8.0, depth = 8
iter = 12689, queue = 17630, heur = -8.0, depth = 8
iter = 12690, queue = 17633, heur = -8.0, depth = 8
iter = 12691, queue = 17636, heur = -8.0, depth = 8
iter = 12692, queue = 17639, heur = -8.0, depth = 8
iter = 12693, queue = 17641, heur = -8.0, depth = 8
iter = 12694, queue = 17642, heur = -8.0, depth = 8
iter = 12695, queue = 17645, heur = -8.0, depth = 8
iter = 12696, queue = 17646, heur = -8.0, depth = 8
iter = 12697, queue = 17645, heur = -8.0, depth = 8
iter = 12698, queue = 17646, heur = -8.0, depth = 8
iter = 12699, queue = 17647, heur = -8.0, depth = 8
iter = 12700, queue = 17650, heur = -8.0, depth = 8
iter = 12701, queue = 17650, heur = -8.0, depth = 8
iter = 12702, queue = 17650, heur = -8.0, depth = 8
iter = 12703, queue = 17649, heur = -8.0, depth = 8
iter = 12704, queue = 17652, heur = -8.0, depth = 8
iter = 12705, queue = 17653, heur = -8.0, depth = 8
iter = 12706, queue = 17655, heur = -8.0, depth = 8
iter = 12707, queue = 17656, heur = -8.0, depth = 8
iter = 12708, queue = 17656, heur = -8.0, depth = 8
iter = 12709, queue = 17657, heur = -8.0, depth = 8
iter = 12710, queue = 17658, heur = -8.0, depth = 10
iter = 12711, queue = 17660, heur = -8.0, depth = 8
iter = 12712, queue = 17663, heur = -8.0, depth = 8
iter = 12713, queue = 17664, heur = -8.0, depth = 8
iter = 12714, queue = 17664, heur = -8.0, depth = 8
iter = 12715, queue = 17667, heur = -8.0, depth = 8
iter = 12716, queue = 17667, heur = -8.0, depth = 8
iter = 12717, queue = 17668, heur = -8.0, depth = 8
iter = 12718, queue = 17668, heur = -8.0, depth = 8
iter = 12719, queue = 17669, heur = -8.0, depth = 8
iter = 12720, queue = 17670, heur = -8.0, depth = 8
iter = 12721, queue = 17671, heur = -8.0, depth = 8
iter = 12722, queue = 17674, heur = -8.0, depth = 8
iter = 12723, queue = 17675, heur = -8.0, depth = 8
iter = 12724, queue = 17676, heur = -8.0, depth = 8
iter = 12725, queue = 17679, heur = -8.0, depth = 8
iter = 12726, queue = 17679, heur = -8.0, depth = 8
iter = 12727, queue = 17682, heur = -8.0, depth = 8
iter = 12728, queue = 17683, heur = -8.0, depth = 8
iter = 12729, queue = 17684, heur = -8.0, depth = 8
iter = 12730, queue = 17685, heur = -8.0, depth = 8
iter = 12731, queue = 17688, heur = -8.0, depth = 8
iter = 12732, queue = 17689, heur = -8.0, depth = 8
iter = 12733, queue = 17690, heur = -8.0, depth = 8
iter = 12734, queue = 17693, heur = -8.0, depth = 8
iter = 12735, queue = 17694, heur = -8.0, depth = 8
iter = 12736, queue = 17695, heur = -8.0, depth = 8
iter = 12737, queue = 17696, heur = -8.0, depth = 8
iter = 12738, queue = 17696, heur = -8.0, depth = 8
iter = 12739, queue = 17699, heur = -8.0, depth = 8
iter = 12740, queue = 17700, heur = -8.0, depth = 8
iter = 12741, queue = 17701, heur = -8.0, depth = 8
iter = 12742, queue = 17702, heur = -8.0, depth = 8
iter = 12743, queue = 17704, heur = -8.0, depth = 8
iter = 12744, queue = 17705, heur = -8.0, depth = 8
iter = 12745, queue = 17706, heur = -8.0, depth = 8
iter = 12746, queue = 17709, heur = -8.0, depth = 8
```

```
iter = 12747, queue = 17710, heur = -8.0, depth = 8
iter = 12748, queue = 17713, heur = -8.0, depth = 8
iter = 12749, queue = 17715, heur = -8.0, depth = 8
iter = 12750, queue = 17716, heur = -8.0, depth = 8
iter = 12751, queue = 17719, heur = -8.0, depth = 8
iter = 12752, queue = 17720, heur = -8.0, depth = 8
iter = 12753, queue = 17721, heur = -8.0, depth = 8
iter = 12754, queue = 17722, heur = -8.0, depth = 8
iter = 12755, queue = 17723, heur = -8.0, depth = 8
iter = 12756, queue = 17724, heur = -8.0, depth = 8
iter = 12757, queue = 17725, heur = -8.0, depth = 8
iter = 12758, queue = 17726, heur = -8.0, depth = 8
iter = 12759, queue = 17729, heur = -8.0, depth = 8
iter = 12760, queue = 17730, heur = -8.0, depth = 8
iter = 12761, queue = 17733, heur = -8.0, depth = 8
iter = 12762, queue = 17736, heur = -8.0, depth = 8
iter = 12763, queue = 17737, heur = -8.0, depth = 8
iter = 12764, queue = 17740, heur = -8.0, depth = 8
iter = 12765, queue = 17743, heur = -8.0, depth = 8
iter = 12766, queue = 17742, heur = -8.0, depth = 8
iter = 12767, queue = 17742, heur = -8.0, depth = 8
iter = 12768, queue = 17743, heur = -8.0, depth = 8
iter = 12769, queue = 17745, heur = -8.0, depth = 8
iter = 12770, queue = 17748, heur = -8.0, depth = 8
iter = 12771, queue = 17751, heur = -8.0, depth = 8
iter = 12772, queue = 17752, heur = -8.0, depth = 8
iter = 12773, queue = 17753, heur = -8.0, depth = 8
iter = 12774, queue = 17755, heur = -8.0, depth = 8
iter = 12775, queue = 17758, heur = -8.0, depth = 8
iter = 12776, queue = 17759, heur = -8.0, depth = 8
iter = 12777, queue = 17760, heur = -8.0, depth = 8
iter = 12778, queue = 17761, heur = -8.0, depth = 8
iter = 12779, queue = 17763, heur = -8.0, depth = 8
iter = 12780, queue = 17765, heur = -8.0, depth = 8
iter = 12781, queue = 17766, heur = -8.0, depth = 8
iter = 12782, queue = 17767, heur = -8.0, depth = 8
iter = 12783, queue = 17770, heur = -8.0, depth = 8
iter = 12784, queue = 17771, heur = -8.0, depth = 8
iter = 12785, queue = 17772, heur = -8.0, depth = 8
iter = 12786, queue = 17775, heur = -8.0, depth = 8
iter = 12787, queue = 17778, heur = -8.0, depth = 8
iter = 12788, queue = 17781, heur = -8.0, depth = 8
iter = 12789, queue = 17780, heur = -8.0, depth = 8
iter = 12790, queue = 17781, heur = -8.0, depth = 8
iter = 12791, queue = 17780, heur = -8.0, depth = 8
iter = 12792, queue = 17781, heur = -8.0, depth = 8
iter = 12793, queue = 17784, heur = -8.0, depth = 8
iter = 12794, queue = 17787, heur = -8.0, depth = 8
iter = 12795, queue = 17788, heur = -8.0, depth = 8
iter = 12796, queue = 17789, heur = -8.0, depth = 8
iter = 12797, queue = 17792, heur = -8.0, depth = 8
iter = 12798, queue = 17795, heur = -8.0, depth = 8
iter = 12799, queue = 17795, heur = -8.0, depth = 8
iter = 12800, queue = 17797, heur = -8.0, depth = 8
iter = 12801, queue = 17798, heur = -8.0, depth = 8
iter = 12802, queue = 17800, heur = -8.0, depth = 8
iter = 12803, queue = 17799, heur = -8.0, depth = 8
iter = 12804, queue = 17801, heur = -8.0, depth = 8
iter = 12805, queue = 17804, heur = -8.0, depth = 8
```

```
iter = 12806, queue = 17807, heur = -8.0, depth = 8
iter = 12807, queue = 17808, heur = -8.0, depth = 8
iter = 12808, queue = 17809, heur = -8.0, depth = 8
iter = 12809, queue = 17808, heur = -8.0, depth = 8
iter = 12810, queue = 17809, heur = -8.0, depth = 8
iter = 12811, queue = 17810, heur = -8.0, depth = 8
iter = 12812, queue = 17811, heur = -8.0, depth = 8
iter = 12813, queue = 17814, heur = -8.0, depth = 8
iter = 12814, queue = 17814, heur = -8.0, depth = 8
iter = 12815, queue = 17815, heur = -8.0, depth = 8
iter = 12816, queue = 17818, heur = -8.0, depth = 8
iter = 12817, queue = 17820, heur = -8.0, depth = 8
iter = 12818, queue = 17823, heur = -8.0, depth = 8
iter = 12819, queue = 17824, heur = -8.0, depth = 8
iter = 12820, queue = 17824, heur = -8.0, depth = 8
iter = 12821, queue = 17827, heur = -8.0, depth = 8
iter = 12822, queue = 17828, heur = -8.0, depth = 8
iter = 12823, queue = 17831, heur = -8.0, depth = 8
iter = 12824, queue = 17832, heur = -8.0, depth = 8
iter = 12825, queue = 17833, heur = -8.0, depth = 8
iter = 12826, queue = 17835, heur = -8.0, depth = 8
iter = 12827, queue = 17836, heur = -8.0, depth = 8
iter = 12828, queue = 17839, heur = -8.0, depth = 8
iter = 12829, queue = 17841, heur = -8.0, depth = 8
iter = 12830, queue = 17844, heur = -8.0, depth = 8
iter = 12831, queue = 17843, heur = -8.0, depth = 8
iter = 12832, queue = 17845, heur = -8.0, depth = 8
iter = 12833, queue = 17846, heur = -8.0, depth = 8
iter = 12834, queue = 17848, heur = -8.0, depth = 8
iter = 12835, queue = 17847, heur = -8.0, depth = 8
iter = 12836, queue = 17850, heur = -8.0, depth = 8
iter = 12837, queue = 17853, heur = -8.0, depth = 8
iter = 12838, queue = 17854, heur = -8.0, depth = 8
iter = 12839, queue = 17855, heur = -8.0, depth = 8
iter = 12840, queue = 17858, heur = -8.0, depth = 8
iter = 12841, queue = 17859, heur = -8.0, depth = 10
iter = 12842, queue = 17859, heur = -8.0, depth = 8
iter = 12843, queue = 17860, heur = -8.0, depth = 8
iter = 12844, queue = 17862, heur = -8.0, depth = 8
iter = 12845, queue = 17863, heur = -8.0, depth = 8
iter = 12846, queue = 17864, heur = -8.0, depth = 8
iter = 12847, queue = 17867, heur = -8.0, depth = 8
iter = 12848, queue = 17868, heur = -8.0, depth = 8
iter = 12849, queue = 17871, heur = -8.0, depth = 8
iter = 12850, queue = 17872, heur = -8.0, depth = 8
iter = 12851, queue = 17874, heur = -8.0, depth = 8
iter = 12852, queue = 17877, heur = -8.0, depth = 8
iter = 12853, queue = 17878, heur = -8.0, depth = 8
iter = 12854, queue = 17881, heur = -8.0, depth = 8
iter = 12855, queue = 17882, heur = -8.0, depth = 8
iter = 12856, queue = 17883, heur = -8.0, depth = 8
iter = 12857, queue = 17886, heur = -8.0, depth = 8
iter = 12858, queue = 17889, heur = -8.0, depth = 8
iter = 12859, queue = 17890, heur = -8.0, depth = 8
iter = 12860, queue = 17893, heur = -8.0, depth = 8
iter = 12861, queue = 17894, heur = -8.0, depth = 8
iter = 12862, queue = 17895, heur = -8.0, depth = 8
iter = 12863, queue = 17896, heur = -8.0, depth = 8
iter = 12864, queue = 17899, heur = -8.0, depth = 8
```

```
iter = 12865, queue = 17900, heur = -8.0, depth = 8
iter = 12866, queue = 17899, heur = -8.0, depth = 8
iter = 12867, queue = 17901, heur = -8.0, depth = 8
iter = 12868, queue = 17902, heur = -8.0, depth = 8
iter = 12869, queue = 17903, heur = -8.0, depth = 8
iter = 12870, queue = 17906, heur = -8.0, depth = 8
iter = 12871, queue = 17907, heur = -8.0, depth = 8
iter = 12872, queue = 17907, heur = -8.0, depth = 8
iter = 12873, queue = 17908, heur = -8.0, depth = 8
iter = 12874, queue = 17911, heur = -8.0, depth = 8
iter = 12875, queue = 17914, heur = -8.0, depth = 8
iter = 12876, queue = 17917, heur = -8.0, depth = 10
iter = 12877, queue = 17920, heur = -8.0, depth = 10
iter = 12878, queue = 17923, heur = -8.0, depth = 8
iter = 12879, queue = 17924, heur = -8.0, depth = 8
iter = 12880, queue = 17925, heur = -8.0, depth = 10
iter = 12881, queue = 17928, heur = -8.0, depth = 8
iter = 12882, queue = 17929, heur = -8.0, depth = 8
iter = 12883, queue = 17932, heur = -8.0, depth = 8
iter = 12884, queue = 17932, heur = -8.0, depth = 8
iter = 12885, queue = 17933, heur = -8.0, depth = 8
iter = 12886, queue = 17935, heur = -8.0, depth = 8
iter = 12887, queue = 17937, heur = -8.0, depth = 8
iter = 12888, queue = 17938, heur = -8.0, depth = 8
iter = 12889, queue = 17941, heur = -8.0, depth = 8
iter = 12890, queue = 17942, heur = -8.0, depth = 8
iter = 12891, queue = 17944, heur = -8.0, depth = 8
iter = 12892, queue = 17946, heur = -8.0, depth = 8
iter = 12893, queue = 17947, heur = -8.0, depth = 8
iter = 12894, queue = 17948, heur = -8.0, depth = 8
iter = 12895, queue = 17947, heur = -8.0, depth = 8
iter = 12896, queue = 17950, heur = -8.0, depth = 8
iter = 12897, queue = 17952, heur = -8.0, depth = 8
iter = 12898, queue = 17952, heur = -8.0, depth = 8
iter = 12899, queue = 17955, heur = -8.0, depth = 8
iter = 12900, queue = 17956, heur = -8.0, depth = 8
iter = 12901, queue = 17957, heur = -8.0, depth = 8
iter = 12902, queue = 17958, heur = -8.0, depth = 8
iter = 12903, queue = 17961, heur = -8.0, depth = 8
iter = 12904, queue = 17964, heur = -8.0, depth = 8
iter = 12905, queue = 17967, heur = -8.0, depth = 8
iter = 12906, queue = 17970, heur = -8.0, depth = 8
iter = 12907, queue = 17972, heur = -8.0, depth = 8
iter = 12908, queue = 17973, heur = -8.0, depth = 8
iter = 12909, queue = 17973, heur = -8.0, depth = 8
iter = 12910, queue = 17974, heur = -8.0, depth = 8
iter = 12911, queue = 17973, heur = -8.0, depth = 8
iter = 12912, queue = 17976, heur = -8.0, depth = 8
iter = 12913, queue = 17979, heur = -8.0, depth = 8
iter = 12914, queue = 17980, heur = -8.0, depth = 8
iter = 12915, queue = 17979, heur = -8.0, depth = 8
iter = 12916, queue = 17982, heur = -8.0, depth = 8
iter = 12917, queue = 17983, heur = -8.0, depth = 11
iter = 12918, queue = 17984, heur = -8.0, depth = 8
iter = 12919, queue = 17985, heur = -8.0, depth = 8
iter = 12920, queue = 17986, heur = -8.0, depth = 8
iter = 12921, queue = 17986, heur = -8.0, depth = 8
iter = 12922, queue = 17987, heur = -8.0, depth = 8
iter = 12923, queue = 17988, heur = -8.0, depth = 8
```

```
iter = 12924, queue = 17990, heur = -8.0, depth = 8
iter = 12925, queue = 17991, heur = -8.0, depth = 8
iter = 12926, queue = 17992, heur = -8.0, depth = 8
iter = 12927, queue = 17993, heur = -8.0, depth = 8
iter = 12928, queue = 17992, heur = -8.0, depth = 8
iter = 12929, queue = 17995, heur = -8.0, depth = 8
iter = 12930, queue = 17996, heur = -8.0, depth = 8
iter = 12931, queue = 17995, heur = -8.0, depth = 8
iter = 12932, queue = 17997, heur = -8.0, depth = 8
iter = 12933, queue = 17998, heur = -8.0, depth = 8
iter = 12934, queue = 18001, heur = -8.0, depth = 8
iter = 12935, queue = 18002, heur = -8.0, depth = 8
iter = 12936, queue = 18004, heur = -8.0, depth = 8
iter = 12937, queue = 18007, heur = -8.0, depth = 8
iter = 12938, queue = 18008, heur = -8.0, depth = 8
iter = 12939, queue = 18010, heur = -8.0, depth = 8
iter = 12940, queue = 18011, heur = -8.0, depth = 8
iter = 12941, queue = 18011, heur = -8.0, depth = 8
iter = 12942, queue = 18014, heur = -8.0, depth = 8
iter = 12943, queue = 18016, heur = -8.0, depth = 8
iter = 12944, queue = 18019, heur = -8.0, depth = 8
iter = 12945, queue = 18020, heur = -8.0, depth = 8
iter = 12946, queue = 18023, heur = -8.0, depth = 8
iter = 12947, queue = 18025, heur = -8.0, depth = 8
iter = 12948, queue = 18028, heur = -8.0, depth = 9
iter = 12949, queue = 18030, heur = -8.0, depth = 8
iter = 12950, queue = 18033, heur = -8.0, depth = 8
iter = 12951, queue = 18032, heur = -8.0, depth = 8
iter = 12952, queue = 18031, heur = -8.0, depth = 8
iter = 12953, queue = 18032, heur = -8.0, depth = 8
iter = 12954, queue = 18033, heur = -8.0, depth = 8
iter = 12955, queue = 18032, heur = -8.0, depth = 8
iter = 12956, queue = 18034, heur = -8.0, depth = 8
iter = 12957, queue = 18037, heur = -8.0, depth = 8
iter = 12958, queue = 18039, heur = -8.0, depth = 8
iter = 12959, queue = 18040, heur = -8.0, depth = 8
iter = 12960, queue = 18043, heur = -8.0, depth = 8
iter = 12961, queue = 18045, heur = -8.0, depth = 8
iter = 12962, queue = 18044, heur = -8.0, depth = 8
iter = 12963, queue = 18047, heur = -8.0, depth = 8
iter = 12964, queue = 18050, heur = -8.0, depth = 8
iter = 12965, queue = 18051, heur = -8.0, depth = 8
iter = 12966, queue = 18052, heur = -8.0, depth = 8
iter = 12967, queue = 18053, heur = -8.0, depth = 8
iter = 12968, queue = 18054, heur = -8.0, depth = 8
iter = 12969, queue = 18055, heur = -8.0, depth = 8
iter = 12970, queue = 18056, heur = -8.0, depth = 8
iter = 12971, queue = 18059, heur = -8.0, depth = 8
iter = 12972, queue = 18060, heur = -8.0, depth = 8
iter = 12973, queue = 18063, heur = -8.0, depth = 8
iter = 12974, queue = 18066, heur = -8.0, depth = 8
iter = 12975, queue = 18068, heur = -8.0, depth = 8
iter = 12976, queue = 18069, heur = -8.0, depth = 8
iter = 12977, queue = 18070, heur = -8.0, depth = 8
iter = 12978, queue = 18070, heur = -8.0, depth = 8
iter = 12979, queue = 18073, heur = -8.0, depth = 8
iter = 12980, queue = 18074, heur = -8.0, depth = 8
iter = 12981, queue = 18074, heur = -8.0, depth = 8
iter = 12982, queue = 18077, heur = -8.0, depth = 8
```

```
iter = 12983, queue = 18076, heur = -8.0, depth = 9
iter = 12984, queue = 18079, heur = -8.0, depth = 8
iter = 12985, queue = 18080, heur = -8.0, depth = 8
iter = 12986, queue = 18083, heur = -8.0, depth = 8
iter = 12987, queue = 18086, heur = -8.0, depth = 8
iter = 12988, queue = 18089, heur = -8.0, depth = 8
iter = 12989, queue = 18092, heur = -8.0, depth = 8
iter = 12990, queue = 18095, heur = -8.0, depth = 8
iter = 12991, queue = 18098, heur = -8.0, depth = 8
iter = 12992, queue = 18099, heur = -8.0, depth = 9
iter = 12993, queue = 18100, heur = -8.0, depth = 8
iter = 12994, queue = 18101, heur = -8.0, depth = 8
iter = 12995, queue = 18104, heur = -8.0, depth = 8
iter = 12996, queue = 18105, heur = -8.0, depth = 8
iter = 12997, queue = 18104, heur = -8.0, depth = 8
iter = 12998, queue = 18105, heur = -8.0, depth = 8
iter = 12999, queue = 18106, heur = -8.0, depth = 8
iter = 13000, queue = 18107, heur = -8.0, depth = 8
iter = 13001, queue = 18108, heur = -8.0, depth = 8
iter = 13002, queue = 18110, heur = -8.0, depth = 8
iter = 13003, queue = 18112, heur = -8.0, depth = 8
iter = 13004, queue = 18113, heur = -8.0, depth = 8
iter = 13005, queue = 18116, heur = -8.0, depth = 8
iter = 13006, queue = 18117, heur = -8.0, depth = 8
iter = 13007, queue = 18118, heur = -8.0, depth = 8
iter = 13008, queue = 18121, heur = -8.0, depth = 9
iter = 13009, queue = 18121, heur = -8.0, depth = 8
iter = 13010, queue = 18124, heur = -8.0, depth = 8
iter = 13011, queue = 18127, heur = -8.0, depth = 8
iter = 13012, queue = 18129, heur = -8.0, depth = 8
iter = 13013, queue = 18131, heur = -8.0, depth = 8
iter = 13014, queue = 18134, heur = -8.0, depth = 8
iter = 13015, queue = 18135, heur = -8.0, depth = 8
iter = 13016, queue = 18135, heur = -8.0, depth = 8
iter = 13017, queue = 18138, heur = -8.0, depth = 8
iter = 13018, queue = 18139, heur = -8.0, depth = 8
iter = 13019, queue = 18140, heur = -8.0, depth = 8
iter = 13020, queue = 18143, heur = -8.0, depth = 8
iter = 13021, queue = 18146, heur = -8.0, depth = 8
iter = 13022, queue = 18147, heur = -8.0, depth = 8
iter = 13023, queue = 18148, heur = -8.0, depth = 8
iter = 13024, queue = 18151, heur = -8.0, depth = 8
iter = 13025, queue = 18151, heur = -8.0, depth = 8
iter = 13026, queue = 18152, heur = -8.0, depth = 8
iter = 13027, queue = 18152, heur = -8.0, depth = 8
iter = 13028, queue = 18153, heur = -8.0, depth = 8
iter = 13029, queue = 18154, heur = -8.0, depth = 8
iter = 13030, queue = 18155, heur = -8.0, depth = 8
iter = 13031, queue = 18156, heur = -8.0, depth = 8
iter = 13032, queue = 18157, heur = -8.0, depth = 8
iter = 13033, queue = 18160, heur = -8.0, depth = 8
iter = 13034, queue = 18162, heur = -8.0, depth = 8
iter = 13035, queue = 18165, heur = -8.0, depth = 8
iter = 13036, queue = 18167, heur = -8.0, depth = 8
iter = 13037, queue = 18168, heur = -8.0, depth = 8
iter = 13038, queue = 18167, heur = -8.0, depth = 8
iter = 13039, queue = 18169, heur = -8.0, depth = 8
iter = 13040, queue = 18172, heur = -8.0, depth = 8
iter = 13041, queue = 18175, heur = -8.0, depth = 8
```

```
iter = 13042, queue = 18176, heur = -8.0, depth = 8
iter = 13043, queue = 18179, heur = -8.0, depth = 8
iter = 13044, queue = 18179, heur = -8.0, depth = 8
iter = 13045, queue = 18180, heur = -8.0, depth = 8
iter = 13046, queue = 18180, heur = -8.0, depth = 8
iter = 13047, queue = 18181, heur = -8.0, depth = 9
iter = 13048, queue = 18181, heur = -8.0, depth = 8
iter = 13049, queue = 18182, heur = -8.0, depth = 8
iter = 13050, queue = 18183, heur = -8.0, depth = 8
iter = 13051, queue = 18186, heur = -8.0, depth = 8
iter = 13052, queue = 18188, heur = -8.0, depth = 8
iter = 13053, queue = 18191, heur = -8.0, depth = 8
iter = 13054, queue = 18192, heur = -8.0, depth = 8
iter = 13055, queue = 18193, heur = -8.0, depth = 8
iter = 13056, queue = 18196, heur = -8.0, depth = 8
iter = 13057, queue = 18197, heur = -8.0, depth = 8
iter = 13058, queue = 18198, heur = -8.0, depth = 8
iter = 13059, queue = 18201, heur = -8.0, depth = 8
iter = 13060, queue = 18204, heur = -8.0, depth = 8
iter = 13061, queue = 18205, heur = -8.0, depth = 8
iter = 13062, queue = 18208, heur = -8.0, depth = 8
iter = 13063, queue = 18208, heur = -8.0, depth = 8
iter = 13064, queue = 18207, heur = -8.0, depth = 8
iter = 13065, queue = 18208, heur = -8.0, depth = 8
iter = 13066, queue = 18208, heur = -8.0, depth = 8
iter = 13067, queue = 18207, heur = -8.0, depth = 8
iter = 13068, queue = 18208, heur = -8.0, depth = 8
iter = 13069, queue = 18209, heur = -8.0, depth = 8
iter = 13070, queue = 18210, heur = -8.0, depth = 8
iter = 13071, queue = 18212, heur = -8.0, depth = 8
iter = 13072, queue = 18215, heur = -8.0, depth = 8
iter = 13073, queue = 18216, heur = -8.0, depth = 8
iter = 13074, queue = 18217, heur = -8.0, depth = 8
iter = 13075, queue = 18219, heur = -8.0, depth = 8
iter = 13076, queue = 18220, heur = -8.0, depth = 8
iter = 13077, queue = 18221, heur = -8.0, depth = 8
iter = 13078, queue = 18223, heur = -8.0, depth = 8
iter = 13079, queue = 18223, heur = -8.0, depth = 8
iter = 13080, queue = 18226, heur = -8.0, depth = 8
iter = 13081, queue = 18228, heur = -8.0, depth = 8
iter = 13082, queue = 18229, heur = -8.0, depth = 8
iter = 13083, queue = 18230, heur = -8.0, depth = 8
iter = 13084, queue = 18231, heur = -8.0, depth = 8
iter = 13085, queue = 18231, heur = -8.0, depth = 8
iter = 13086, queue = 18232, heur = -8.0, depth = 8
iter = 13087, queue = 18235, heur = -8.0, depth = 8
iter = 13088, queue = 18234, heur = -8.0, depth = 8
iter = 13089, queue = 18237, heur = -8.0, depth = 8
iter = 13090, queue = 18237, heur = -8.0, depth = 8
iter = 13091, queue = 18240, heur = -8.0, depth = 8
iter = 13092, queue = 18241, heur = -8.0, depth = 8
iter = 13093, queue = 18244, heur = -8.0, depth = 8
iter = 13094, queue = 18243, heur = -8.0, depth = 8
iter = 13095, queue = 18245, heur = -8.0, depth = 8
iter = 13096, queue = 18246, heur = -8.0, depth = 8
iter = 13097, queue = 18248, heur = -8.0, depth = 8
iter = 13098, queue = 18251, heur = -8.0, depth = 8
iter = 13099, queue = 18254, heur = -8.0, depth = 8
iter = 13100, queue = 18256, heur = -8.0, depth = 8
```

```
iter = 13101, queue = 18257, heur = -8.0, depth = 8
iter = 13102, queue = 18258, heur = -8.0, depth = 8
iter = 13103, queue = 18260, heur = -8.0, depth = 8
iter = 13104, queue = 18261, heur = -8.0, depth = 8
iter = 13105, queue = 18264, heur = -8.0, depth = 8
iter = 13106, queue = 18267, heur = -8.0, depth = 8
iter = 13107, queue = 18269, heur = -8.0, depth = 8
iter = 13108, queue = 18269, heur = -8.0, depth = 8
iter = 13109, queue = 18268, heur = -8.0, depth = 8
iter = 13110, queue = 18269, heur = -8.0, depth = 8
iter = 13111, queue = 18268, heur = -8.0, depth = 8
iter = 13112, queue = 18271, heur = -8.0, depth = 9
iter = 13113, queue = 18272, heur = -8.0, depth = 8
iter = 13114, queue = 18273, heur = -8.0, depth = 8
iter = 13115, queue = 18276, heur = -8.0, depth = 8
iter = 13116, queue = 18277, heur = -8.0, depth = 8
iter = 13117, queue = 18278, heur = -8.0, depth = 8
iter = 13118, queue = 18281, heur = -8.0, depth = 8
iter = 13119, queue = 18284, heur = -8.0, depth = 8
iter = 13120, queue = 18285, heur = -8.0, depth = 8
iter = 13121, queue = 18288, heur = -8.0, depth = 8
iter = 13122, queue = 18289, heur = -8.0, depth = 8
iter = 13123, queue = 18292, heur = -8.0, depth = 8
iter = 13124, queue = 18293, heur = -8.0, depth = 8
iter = 13125, queue = 18296, heur = -8.0, depth = 8
iter = 13126, queue = 18299, heur = -8.0, depth = 8
iter = 13127, queue = 18300, heur = -8.0, depth = 8
iter = 13128, queue = 18301, heur = -8.0, depth = 8
iter = 13129, queue = 18304, heur = -8.0, depth = 8
iter = 13130, queue = 18307, heur = -8.0, depth = 8
iter = 13131, queue = 18307, heur = -8.0, depth = 8
iter = 13132, queue = 18308, heur = -8.0, depth = 8
iter = 13133, queue = 18311, heur = -8.0, depth = 8
iter = 13134, queue = 18313, heur = -8.0, depth = 8
iter = 13135, queue = 18314, heur = -8.0, depth = 8
iter = 13136, queue = 18315, heur = -8.0, depth = 8
iter = 13137, queue = 18318, heur = -8.0, depth = 8
iter = 13138, queue = 18319, heur = -8.0, depth = 8
iter = 13139, queue = 18322, heur = -8.0, depth = 8
iter = 13140, queue = 18323, heur = -8.0, depth = 8
iter = 13141, queue = 18322, heur = -8.0, depth = 8
iter = 13142, queue = 18324, heur = -8.0, depth = 8
iter = 13143, queue = 18325, heur = -8.0, depth = 8
iter = 13144, queue = 18325, heur = -8.0, depth = 8
iter = 13145, queue = 18328, heur = -8.0, depth = 8
iter = 13146, queue = 18330, heur = -8.0, depth = 8
iter = 13147, queue = 18333, heur = -8.0, depth = 8
iter = 13148, queue = 18334, heur = -8.0, depth = 8
iter = 13149, queue = 18335, heur = -8.0, depth = 8
iter = 13150, queue = 18337, heur = -8.0, depth = 8
iter = 13151, queue = 18339, heur = -8.0, depth = 8
iter = 13152, queue = 18338, heur = -8.0, depth = 8
iter = 13153, queue = 18339, heur = -8.0, depth = 8
iter = 13154, queue = 18342, heur = -8.0, depth = 8
iter = 13155, queue = 18341, heur = -8.0, depth = 8
iter = 13156, queue = 18343, heur = -8.0, depth = 8
iter = 13157, queue = 18344, heur = -8.0, depth = 8
iter = 13158, queue = 18343, heur = -8.0, depth = 8
iter = 13159, queue = 18344, heur = -8.0, depth = 8
```

```
iter = 13160, queue = 18345, heur = -8.0, depth = 8
iter = 13161, queue = 18346, heur = -8.0, depth = 8
iter = 13162, queue = 18349, heur = -8.0, depth = 8
iter = 13163, queue = 18352, heur = -8.0, depth = 8
iter = 13164, queue = 18353, heur = -8.0, depth = 8
iter = 13165, queue = 18354, heur = -8.0, depth = 8
iter = 13166, queue = 18357, heur = -8.0, depth = 8
iter = 13167, queue = 18360, heur = -8.0, depth = 8
iter = 13168, queue = 18360, heur = -8.0, depth = 8
iter = 13169, queue = 18361, heur = -8.0, depth = 8
iter = 13170, queue = 18362, heur = -8.0, depth = 8
iter = 13171, queue = 18365, heur = -8.0, depth = 8
iter = 13172, queue = 18368, heur = -8.0, depth = 8
iter = 13173, queue = 18367, heur = -8.0, depth = 8
iter = 13174, queue = 18368, heur = -8.0, depth = 8
iter = 13175, queue = 18371, heur = -8.0, depth = 8
iter = 13176, queue = 18370, heur = -8.0, depth = 8
iter = 13177, queue = 18371, heur = -8.0, depth = 8
iter = 13178, queue = 18374, heur = -8.0, depth = 8
iter = 13179, queue = 18375, heur = -8.0, depth = 8
iter = 13180, queue = 18376, heur = -8.0, depth = 8
iter = 13181, queue = 18376, heur = -8.0, depth = 8
iter = 13182, queue = 18378, heur = -8.0, depth = 8
iter = 13183, queue = 18381, heur = -8.0, depth = 8
iter = 13184, queue = 18382, heur = -8.0, depth = 8
iter = 13185, queue = 18382, heur = -8.0, depth = 8
iter = 13186, queue = 18383, heur = -8.0, depth = 8
iter = 13187, queue = 18385, heur = -8.0, depth = 8
iter = 13188, queue = 18386, heur = -8.0, depth = 8
iter = 13189, queue = 18387, heur = -8.0, depth = 8
iter = 13190, queue = 18388, heur = -8.0, depth = 8
iter = 13191, queue = 18391, heur = -8.0, depth = 8
iter = 13192, queue = 18392, heur = -8.0, depth = 8
iter = 13193, queue = 18393, heur = -8.0, depth = 8
iter = 13194, queue = 18394, heur = -8.0, depth = 8
iter = 13195, queue = 18397, heur = -8.0, depth = 8
iter = 13196, queue = 18398, heur = -8.0, depth = 8
iter = 13197, queue = 18401, heur = -8.0, depth = 8
iter = 13198, queue = 18404, heur = -8.0, depth = 8
iter = 13199, queue = 18407, heur = -8.0, depth = 8
iter = 13200, queue = 18408, heur = -8.0, depth = 8
iter = 13201, queue = 18411, heur = -8.0, depth = 8
iter = 13202, queue = 18412, heur = -8.0, depth = 8
iter = 13203, queue = 18414, heur = -8.0, depth = 8
iter = 13204, queue = 18416, heur = -8.0, depth = 8
iter = 13205, queue = 18415, heur = -8.0, depth = 8
iter = 13206, queue = 18416, heur = -8.0, depth = 8
iter = 13207, queue = 18417, heur = -8.0, depth = 8
iter = 13208, queue = 18420, heur = -8.0, depth = 8
iter = 13209, queue = 18421, heur = -8.0, depth = 8
iter = 13210, queue = 18421, heur = -8.0, depth = 8
iter = 13211, queue = 18424, heur = -8.0, depth = 8
iter = 13212, queue = 18423, heur = -8.0, depth = 8
iter = 13213, queue = 18422, heur = -8.0, depth = 8
iter = 13214, queue = 18425, heur = -8.0, depth = 8
iter = 13215, queue = 18426, heur = -8.0, depth = 8
iter = 13216, queue = 18429, heur = -8.0, depth = 9
iter = 13217, queue = 18430, heur = -8.0, depth = 8
iter = 13218, queue = 18431, heur = -8.0, depth = 8
```

```
iter = 13219, queue = 18434, heur = -8.0, depth = 8
iter = 13220, queue = 18435, heur = -8.0, depth = 9
iter = 13221, queue = 18437, heur = -8.0, depth = 8
iter = 13222, queue = 18438, heur = -8.0, depth = 8
iter = 13223, queue = 18439, heur = -8.0, depth = 8
iter = 13224, queue = 18442, heur = -8.0, depth = 8
iter = 13225, queue = 18443, heur = -8.0, depth = 8
iter = 13226, queue = 18444, heur = -8.0, depth = 8
iter = 13227, queue = 18443, heur = -8.0, depth = 8
iter = 13228, queue = 18444, heur = -8.0, depth = 8
iter = 13229, queue = 18447, heur = -8.0, depth = 8
iter = 13230, queue = 18450, heur = -8.0, depth = 8
iter = 13231, queue = 18453, heur = -8.0, depth = 8
iter = 13232, queue = 18455, heur = -8.0, depth = 8
iter = 13233, queue = 18456, heur = -8.0, depth = 8
iter = 13234, queue = 18456, heur = -8.0, depth = 8
iter = 13235, queue = 18459, heur = -8.0, depth = 8
iter = 13236, queue = 18459, heur = -8.0, depth = 8
iter = 13237, queue = 18461, heur = -8.0, depth = 8
iter = 13238, queue = 18464, heur = -8.0, depth = 8
iter = 13239, queue = 18467, heur = -8.0, depth = 8
iter = 13240, queue = 18470, heur = -8.0, depth = 8
iter = 13241, queue = 18471, heur = -8.0, depth = 8
iter = 13242, queue = 18472, heur = -8.0, depth = 8
iter = 13243, queue = 18475, heur = -8.0, depth = 8
iter = 13244, queue = 18476, heur = -8.0, depth = 8
iter = 13245, queue = 18475, heur = -8.0, depth = 8
iter = 13246, queue = 18478, heur = -8.0, depth = 8
iter = 13247, queue = 18481, heur = -8.0, depth = 8
iter = 13248, queue = 18484, heur = -8.0, depth = 8
iter = 13249, queue = 18485, heur = -8.0, depth = 8
iter = 13250, queue = 18486, heur = -8.0, depth = 8
iter = 13251, queue = 18487, heur = -8.0, depth = 8
iter = 13252, queue = 18488, heur = -8.0, depth = 8
iter = 13253, queue = 18489, heur = -8.0, depth = 8
iter = 13254, queue = 18491, heur = -8.0, depth = 8
iter = 13255, queue = 18490, heur = -8.0, depth = 8
iter = 13256, queue = 18492, heur = -8.0, depth = 8
iter = 13257, queue = 18495, heur = -8.0, depth = 8
iter = 13258, queue = 18496, heur = -8.0, depth = 8
iter = 13259, queue = 18496, heur = -8.0, depth = 8
iter = 13260, queue = 18496, heur = -8.0, depth = 8
iter = 13261, queue = 18498, heur = -8.0, depth = 8
iter = 13262, queue = 18499, heur = -8.0, depth = 8
iter = 13263, queue = 18500, heur = -8.0, depth = 8
iter = 13264, queue = 18502, heur = -8.0, depth = 8
iter = 13265, queue = 18505, heur = -8.0, depth = 8
iter = 13266, queue = 18506, heur = -8.0, depth = 8
iter = 13267, queue = 18509, heur = -8.0, depth = 8
iter = 13268, queue = 18509, heur = -8.0, depth = 8
iter = 13269, queue = 18512, heur = -8.0, depth = 8
iter = 13270, queue = 18515, heur = -8.0, depth = 8
iter = 13271, queue = 18518, heur = -8.0, depth = 8
iter = 13272, queue = 18517, heur = -8.0, depth = 8
iter = 13273, queue = 18520, heur = -8.0, depth = 8
iter = 13274, queue = 18521, heur = -8.0, depth = 8
iter = 13275, queue = 18522, heur = -8.0, depth = 8
iter = 13276, queue = 18525, heur = -8.0, depth = 8
iter = 13277, queue = 18527, heur = -8.0, depth = 8
```

```
iter = 13278, queue = 18530, heur = -8.0, depth = 8
iter = 13279, queue = 18533, heur = -8.0, depth = 8
iter = 13280, queue = 18536, heur = -8.0, depth = 8
iter = 13281, queue = 18538, heur = -8.0, depth = 8
iter = 13282, queue = 18541, heur = -8.0, depth = 8
iter = 13283, queue = 18544, heur = -8.0, depth = 8
iter = 13284, queue = 18543, heur = -8.0, depth = 8
iter = 13285, queue = 18546, heur = -8.0, depth = 8
iter = 13286, queue = 18547, heur = -8.0, depth = 8
iter = 13287, queue = 18549, heur = -8.0, depth = 8
iter = 13288, queue = 18550, heur = -8.0, depth = 8
iter = 13289, queue = 18551, heur = -8.0, depth = 8
iter = 13290, queue = 18554, heur = -8.0, depth = 8
iter = 13291, queue = 18556, heur = -8.0, depth = 8
iter = 13292, queue = 18557, heur = -8.0, depth = 8
iter = 13293, queue = 18560, heur = -8.0, depth = 8
iter = 13294, queue = 18563, heur = -8.0, depth = 8
iter = 13295, queue = 18566, heur = -8.0, depth = 8
iter = 13296, queue = 18567, heur = -8.0, depth = 8
iter = 13297, queue = 18568, heur = -8.0, depth = 8
iter = 13298, queue = 18567, heur = -8.0, depth = 8
iter = 13299, queue = 18568, heur = -8.0, depth = 8
iter = 13300, queue = 18569, heur = -8.0, depth = 8
iter = 13301, queue = 18571, heur = -8.0, depth = 8
iter = 13302, queue = 18572, heur = -8.0, depth = 8
iter = 13303, queue = 18574, heur = -8.0, depth = 8
iter = 13304, queue = 18575, heur = -8.0, depth = 8
iter = 13305, queue = 18576, heur = -8.0, depth = 8
iter = 13306, queue = 18577, heur = -8.0, depth = 8
iter = 13307, queue = 18578, heur = -8.0, depth = 8
iter = 13308, queue = 18579, heur = -8.0, depth = 8
iter = 13309, queue = 18580, heur = -8.0, depth = 8
iter = 13310, queue = 18581, heur = -8.0, depth = 8
iter = 13311, queue = 18580, heur = -8.0, depth = 8
iter = 13312, queue = 18581, heur = -8.0, depth = 8
iter = 13313, queue = 18584, heur = -8.0, depth = 8
iter = 13314, queue = 18585, heur = -8.0, depth = 8
iter = 13315, queue = 18587, heur = -8.0, depth = 8
iter = 13316, queue = 18588, heur = -8.0, depth = 8
iter = 13317, queue = 18589, heur = -8.0, depth = 8
iter = 13318, queue = 18590, heur = -8.0, depth = 8
iter = 13319, queue = 18591, heur = -8.0, depth = 8
iter = 13320, queue = 18594, heur = -8.0, depth = 8
iter = 13321, queue = 18595, heur = -8.0, depth = 8
iter = 13322, queue = 18596, heur = -8.0, depth = 8
iter = 13323, queue = 18596, heur = -8.0, depth = 8
iter = 13324, queue = 18599, heur = -8.0, depth = 8
iter = 13325, queue = 18601, heur = -8.0, depth = 8
iter = 13326, queue = 18602, heur = -8.0, depth = 8
iter = 13327, queue = 18602, heur = -8.0, depth = 8
iter = 13328, queue = 18603, heur = -8.0, depth = 8
iter = 13329, queue = 18604, heur = -8.0, depth = 8
iter = 13330, queue = 18607, heur = -8.0, depth = 8
iter = 13331, queue = 18607, heur = -8.0, depth = 8
iter = 13332, queue = 18608, heur = -8.0, depth = 8
iter = 13333, queue = 18609, heur = -8.0, depth = 8
iter = 13334, queue = 18610, heur = -8.0, depth = 8
iter = 13335, queue = 18613, heur = -8.0, depth = 8
iter = 13336, queue = 18616, heur = -8.0, depth = 8
```

```
iter = 13337, queue = 18619, heur = -8.0, depth = 8
iter = 13338, queue = 18619, heur = -8.0, depth = 8
iter = 13339, queue = 18622, heur = -8.0, depth = 8
iter = 13340, queue = 18625, heur = -8.0, depth = 8
iter = 13341, queue = 18628, heur = -8.0, depth = 8
iter = 13342, queue = 18629, heur = -8.0, depth = 8
iter = 13343, queue = 18632, heur = -8.0, depth = 8
iter = 13344, queue = 18633, heur = -8.0, depth = 8
iter = 13345, queue = 18632, heur = -8.0, depth = 8
iter = 13346, queue = 18633, heur = -8.0, depth = 8
iter = 13347, queue = 18635, heur = -8.0, depth = 8
iter = 13348, queue = 18636, heur = -8.0, depth = 8
iter = 13349, queue = 18637, heur = -8.0, depth = 8
iter = 13350, queue = 18640, heur = -8.0, depth = 8
iter = 13351, queue = 18640, heur = -8.0, depth = 8
iter = 13352, queue = 18643, heur = -8.0, depth = 8
iter = 13353, queue = 18645, heur = -8.0, depth = 8
iter = 13354, queue = 18644, heur = -8.0, depth = 8
iter = 13355, queue = 18647, heur = -8.0, depth = 8
iter = 13356, queue = 18650, heur = -8.0, depth = 8
iter = 13357, queue = 18652, heur = -8.0, depth = 8
iter = 13358, queue = 18653, heur = -8.0, depth = 8
iter = 13359, queue = 18654, heur = -8.0, depth = 8
iter = 13360, queue = 18657, heur = -8.0, depth = 8
iter = 13361, queue = 18659, heur = -8.0, depth = 8
iter = 13362, queue = 18661, heur = -8.0, depth = 8
iter = 13363, queue = 18664, heur = -8.0, depth = 8
iter = 13364, queue = 18666, heur = -8.0, depth = 8
iter = 13365, queue = 18667, heur = -8.0, depth = 8
iter = 13366, queue = 18668, heur = -8.0, depth = 8
iter = 13367, queue = 18669, heur = -8.0, depth = 8
iter = 13368, queue = 18671, heur = -8.0, depth = 8
iter = 13369, queue = 18672, heur = -8.0, depth = 8
iter = 13370, queue = 18672, heur = -8.0, depth = 8
iter = 13371, queue = 18675, heur = -8.0, depth = 8
iter = 13372, queue = 18678, heur = -8.0, depth = 8
iter = 13373, queue = 18678, heur = -8.0, depth = 8
iter = 13374, queue = 18679, heur = -8.0, depth = 8
iter = 13375, queue = 18680, heur = -8.0, depth = 8
iter = 13376, queue = 18681, heur = -8.0, depth = 8
iter = 13377, queue = 18681, heur = -8.0, depth = 8
iter = 13378, queue = 18684, heur = -8.0, depth = 8
iter = 13379, queue = 18687, heur = -8.0, depth = 8
iter = 13380, queue = 18686, heur = -8.0, depth = 8
iter = 13381, queue = 18688, heur = -8.0, depth = 8
iter = 13382, queue = 18687, heur = -8.0, depth = 8
iter = 13383, queue = 18690, heur = -8.0, depth = 8
iter = 13384, queue = 18693, heur = -8.0, depth = 8
iter = 13385, queue = 18696, heur = -8.0, depth = 8
iter = 13386, queue = 18697, heur = -8.0, depth = 8
iter = 13387, queue = 18698, heur = -8.0, depth = 8
iter = 13388, queue = 18699, heur = -8.0, depth = 8
iter = 13389, queue = 18700, heur = -8.0, depth = 8
iter = 13390, queue = 18701, heur = -8.0, depth = 8
iter = 13391, queue = 18700, heur = -8.0, depth = 8
iter = 13392, queue = 18699, heur = -8.0, depth = 8
iter = 13393, queue = 18702, heur = -8.0, depth = 8
iter = 13394, queue = 18705, heur = -8.0, depth = 8
iter = 13395, queue = 18706, heur = -8.0, depth = 8
```

```
iter = 13396, queue = 18707, heur = -8.0, depth = 8
iter = 13397, queue = 18709, heur = -8.0, depth = 8
iter = 13398, queue = 18710, heur = -8.0, depth = 8
iter = 13399, queue = 18713, heur = -8.0, depth = 8
iter = 13400, queue = 18716, heur = -8.0, depth = 8
iter = 13401, queue = 18715, heur = -8.0, depth = 8
iter = 13402, queue = 18716, heur = -8.0, depth = 8
iter = 13403, queue = 18718, heur = -8.0, depth = 8
iter = 13404, queue = 18721, heur = -8.0, depth = 8
iter = 13405, queue = 18720, heur = -8.0, depth = 8
iter = 13406, queue = 18723, heur = -8.0, depth = 8
iter = 13407, queue = 18724, heur = -8.0, depth = 8
iter = 13408, queue = 18723, heur = -8.0, depth = 8
iter = 13409, queue = 18726, heur = -8.0, depth = 8
iter = 13410, queue = 18729, heur = -8.0, depth = 8
iter = 13411, queue = 18730, heur = -8.0, depth = 8
iter = 13412, queue = 18729, heur = -8.0, depth = 8
iter = 13413, queue = 18730, heur = -8.0, depth = 8
iter = 13414, queue = 18731, heur = -8.0, depth = 8
iter = 13415, queue = 18732, heur = -8.0, depth = 8
iter = 13416, queue = 18734, heur = -8.0, depth = 8
iter = 13417, queue = 18737, heur = -8.0, depth = 8
iter = 13418, queue = 18738, heur = -8.0, depth = 8
iter = 13419, queue = 18740, heur = -8.0, depth = 8
iter = 13420, queue = 18741, heur = -8.0, depth = 8
iter = 13421, queue = 18743, heur = -8.0, depth = 8
iter = 13422, queue = 18744, heur = -8.0, depth = 8
iter = 13423, queue = 18745, heur = -8.0, depth = 8
iter = 13424, queue = 18748, heur = -8.0, depth = 8
iter = 13425, queue = 18751, heur = -8.0, depth = 8
iter = 13426, queue = 18752, heur = -8.0, depth = 8
iter = 13427, queue = 18755, heur = -8.0, depth = 8
iter = 13428, queue = 18755, heur = -8.0, depth = 8
iter = 13429, queue = 18756, heur = -8.0, depth = 8
iter = 13430, queue = 18758, heur = -8.0, depth = 8
iter = 13431, queue = 18761, heur = -8.0, depth = 8
iter = 13432, queue = 18764, heur = -8.0, depth = 8
iter = 13433, queue = 18765, heur = -8.0, depth = 8
iter = 13434, queue = 18766, heur = -8.0, depth = 8
iter = 13435, queue = 18766, heur = -8.0, depth = 8
iter = 13436, queue = 18769, heur = -8.0, depth = 8
iter = 13437, queue = 18770, heur = -8.0, depth = 8
iter = 13438, queue = 18771, heur = -8.0, depth = 8
iter = 13439, queue = 18773, heur = -8.0, depth = 8
iter = 13440, queue = 18772, heur = -8.0, depth = 8
iter = 13441, queue = 18775, heur = -8.0, depth = 8
iter = 13442, queue = 18776, heur = -8.0, depth = 8
iter = 13443, queue = 18775, heur = -8.0, depth = 8
iter = 13444, queue = 18778, heur = -8.0, depth = 8
iter = 13445, queue = 18779, heur = -8.0, depth = 8
iter = 13446, queue = 18780, heur = -8.0, depth = 8
iter = 13447, queue = 18783, heur = -8.0, depth = 8
iter = 13448, queue = 18784, heur = -8.0, depth = 8
iter = 13449, queue = 18786, heur = -8.0, depth = 8
iter = 13450, queue = 18789, heur = -8.0, depth = 8
iter = 13451, queue = 18789, heur = -8.0, depth = 8
iter = 13452, queue = 18788, heur = -8.0, depth = 8
iter = 13453, queue = 18789, heur = -8.0, depth = 8
iter = 13454, queue = 18791, heur = -8.0, depth = 8
```

```
iter = 13455, queue = 18794, heur = -8.0, depth = 8
iter = 13456, queue = 18795, heur = -8.0, depth = 8
iter = 13457, queue = 18797, heur = -8.0, depth = 8
iter = 13458, queue = 18798, heur = -8.0, depth = 8
iter = 13459, queue = 18801, heur = -8.0, depth = 8
iter = 13460, queue = 18800, heur = -8.0, depth = 8
iter = 13461, queue = 18802, heur = -8.0, depth = 8
iter = 13462, queue = 18803, heur = -8.0, depth = 8
iter = 13463, queue = 18804, heur = -8.0, depth = 8
iter = 13464, queue = 18805, heur = -8.0, depth = 8
iter = 13465, queue = 18808, heur = -8.0, depth = 8
iter = 13466, queue = 18811, heur = -8.0, depth = 8
iter = 13467, queue = 18810, heur = -8.0, depth = 8
iter = 13468, queue = 18812, heur = -8.0, depth = 8
iter = 13469, queue = 18815, heur = -8.0, depth = 8
iter = 13470, queue = 18816, heur = -8.0, depth = 8
iter = 13471, queue = 18819, heur = -8.0, depth = 8
iter = 13472, queue = 18819, heur = -8.0, depth = 8
iter = 13473, queue = 18820, heur = -8.0, depth = 8
iter = 13474, queue = 18823, heur = -8.0, depth = 8
iter = 13475, queue = 18822, heur = -8.0, depth = 8
iter = 13476, queue = 18825, heur = -8.0, depth = 8
iter = 13477, queue = 18828, heur = -8.0, depth = 8
iter = 13478, queue = 18831, heur = -8.0, depth = 8
iter = 13479, queue = 18834, heur = -8.0, depth = 8
iter = 13480, queue = 18834, heur = -8.0, depth = 8
iter = 13481, queue = 18837, heur = -8.0, depth = 8
iter = 13482, queue = 18838, heur = -8.0, depth = 8
iter = 13483, queue = 18837, heur = -8.0, depth = 8
iter = 13484, queue = 18838, heur = -8.0, depth = 8
iter = 13485, queue = 18839, heur = -8.0, depth = 8
iter = 13486, queue = 18838, heur = -8.0, depth = 8
iter = 13487, queue = 18839, heur = -8.0, depth = 8
iter = 13488, queue = 18842, heur = -8.0, depth = 8
iter = 13489, queue = 18843, heur = -8.0, depth = 8
iter = 13490, queue = 18846, heur = -8.0, depth = 8
iter = 13491, queue = 18846, heur = -8.0, depth = 8
iter = 13492, queue = 18849, heur = -8.0, depth = 8
iter = 13493, queue = 18851, heur = -8.0, depth = 8
iter = 13494, queue = 18852, heur = -8.0, depth = 8
iter = 13495, queue = 18852, heur = -8.0, depth = 8
iter = 13496, queue = 18853, heur = -8.0, depth = 8
iter = 13497, queue = 18856, heur = -8.0, depth = 8
iter = 13498, queue = 18859, heur = -8.0, depth = 8
iter = 13499, queue = 18862, heur = -8.0, depth = 8
iter = 13500, queue = 18863, heur = -8.0, depth = 8
iter = 13501, queue = 18863, heur = -8.0, depth = 8
iter = 13502, queue = 18866, heur = -8.0, depth = 8
iter = 13503, queue = 18869, heur = -8.0, depth = 8
iter = 13504, queue = 18871, heur = -8.0, depth = 8
iter = 13505, queue = 18872, heur = -8.0, depth = 8
iter = 13506, queue = 18874, heur = -8.0, depth = 8
iter = 13507, queue = 18877, heur = -8.0, depth = 8
iter = 13508, queue = 18880, heur = -8.0, depth = 8
iter = 13509, queue = 18880, heur = -8.0, depth = 8
iter = 13510, queue = 18880, heur = -8.0, depth = 8
iter = 13511, queue = 18879, heur = -8.0, depth = 8
iter = 13512, queue = 18879, heur = -8.0, depth = 8
iter = 13513, queue = 18880, heur = -8.0, depth = 8
```

```
iter = 13514, queue = 18882, heur = -8.0, depth = 8
iter = 13515, queue = 18883, heur = -8.0, depth = 8
iter = 13516, queue = 18884, heur = -8.0, depth = 8
iter = 13517, queue = 18883, heur = -8.0, depth = 9
iter = 13518, queue = 18886, heur = -8.0, depth = 8
iter = 13519, queue = 18888, heur = -8.0, depth = 9
iter = 13520, queue = 18891, heur = -8.0, depth = 8
iter = 13521, queue = 18892, heur = -8.0, depth = 8
iter = 13522, queue = 18893, heur = -8.0, depth = 8
iter = 13523, queue = 18895, heur = -8.0, depth = 8
iter = 13524, queue = 18894, heur = -8.0, depth = 8
iter = 13525, queue = 18894, heur = -8.0, depth = 8
iter = 13526, queue = 18895, heur = -8.0, depth = 8
iter = 13527, queue = 18896, heur = -8.0, depth = 8
iter = 13528, queue = 18896, heur = -8.0, depth = 8
iter = 13529, queue = 18897, heur = -8.0, depth = 8
iter = 13530, queue = 18898, heur = -8.0, depth = 8
iter = 13531, queue = 18897, heur = -8.0, depth = 8
iter = 13532, queue = 18896, heur = -8.0, depth = 8
iter = 13533, queue = 18897, heur = -8.0, depth = 8
iter = 13534, queue = 18900, heur = -8.0, depth = 8
iter = 13535, queue = 18902, heur = -8.0, depth = 8
iter = 13536, queue = 18903, heur = -8.0, depth = 8
iter = 13537, queue = 18905, heur = -8.0, depth = 8
iter = 13538, queue = 18906, heur = -8.0, depth = 8
iter = 13539, queue = 18909, heur = -8.0, depth = 8
iter = 13540, queue = 18909, heur = -8.0, depth = 8
iter = 13541, queue = 18912, heur = -8.0, depth = 8
iter = 13542, queue = 18913, heur = -8.0, depth = 8
iter = 13543, queue = 18915, heur = -8.0, depth = 8
iter = 13544, queue = 18916, heur = -8.0, depth = 8
iter = 13545, queue = 18916, heur = -8.0, depth = 8
iter = 13546, queue = 18919, heur = -8.0, depth = 8
iter = 13547, queue = 18922, heur = -8.0, depth = 8
iter = 13548, queue = 18923, heur = -8.0, depth = 8
iter = 13549, queue = 18924, heur = -8.0, depth = 8
iter = 13550, queue = 18925, heur = -8.0, depth = 8
iter = 13551, queue = 18926, heur = -8.0, depth = 8
iter = 13552, queue = 18927, heur = -8.0, depth = 8
iter = 13553, queue = 18930, heur = -8.0, depth = 8
iter = 13554, queue = 18932, heur = -8.0, depth = 8
iter = 13555, queue = 18934, heur = -8.0, depth = 8
iter = 13556, queue = 18936, heur = -8.0, depth = 8
iter = 13557, queue = 18938, heur = -8.0, depth = 8
iter = 13558, queue = 18939, heur = -8.0, depth = 8
iter = 13559, queue = 18940, heur = -8.0, depth = 8
iter = 13560, queue = 18943, heur = -8.0, depth = 8
iter = 13561, queue = 18946, heur = -8.0, depth = 8
iter = 13562, queue = 18949, heur = -8.0, depth = 8
iter = 13563, queue = 18950, heur = -8.0, depth = 8
iter = 13564, queue = 18952, heur = -8.0, depth = 8
iter = 13565, queue = 18955, heur = -8.0, depth = 8
iter = 13566, queue = 18956, heur = -8.0, depth = 8
iter = 13567, queue = 18957, heur = -8.0, depth = 8
iter = 13568, queue = 18957, heur = -8.0, depth = 8
iter = 13569, queue = 18959, heur = -8.0, depth = 8
iter = 13570, queue = 18961, heur = -8.0, depth = 8
iter = 13571, queue = 18964, heur = -8.0, depth = 8
iter = 13572, queue = 18963, heur = -8.0, depth = 8
```

```
iter = 13573, queue = 18964, heur = -8.0, depth = 8
iter = 13574, queue = 18965, heur = -8.0, depth = 8
iter = 13575, queue = 18967, heur = -8.0, depth = 8
iter = 13576, queue = 18970, heur = -8.0, depth = 8
iter = 13577, queue = 18971, heur = -8.0, depth = 8
iter = 13578, queue = 18972, heur = -8.0, depth = 8
iter = 13579, queue = 18973, heur = -8.0, depth = 8
iter = 13580, queue = 18974, heur = -8.0, depth = 8
iter = 13581, queue = 18976, heur = -8.0, depth = 8
iter = 13582, queue = 18979, heur = -8.0, depth = 8
iter = 13583, queue = 18980, heur = -8.0, depth = 8
iter = 13584, queue = 18981, heur = -8.0, depth = 8
iter = 13585, queue = 18984, heur = -8.0, depth = 8
iter = 13586, queue = 18985, heur = -8.0, depth = 8
iter = 13587, queue = 18987, heur = -8.0, depth = 8
iter = 13588, queue = 18988, heur = -8.0, depth = 8
iter = 13589, queue = 18991, heur = -8.0, depth = 8
iter = 13590, queue = 18993, heur = -8.0, depth = 8
iter = 13591, queue = 18996, heur = -8.0, depth = 9
iter = 13592, queue = 18996, heur = -8.0, depth = 8
iter = 13593, queue = 18999, heur = -8.0, depth = 8
iter = 13594, queue = 19001, heur = -8.0, depth = 8
iter = 13595, queue = 19002, heur = -8.0, depth = 8
iter = 13596, queue = 19003, heur = -8.0, depth = 8
iter = 13597, queue = 19005, heur = -8.0, depth = 8
iter = 13598, queue = 19007, heur = -8.0, depth = 8
iter = 13599, queue = 19010, heur = -8.0, depth = 8
iter = 13600, queue = 19010, heur = -8.0, depth = 8
iter = 13601, queue = 19009, heur = -8.0, depth = 8
iter = 13602, queue = 19012, heur = -8.0, depth = 8
iter = 13603, queue = 19015, heur = -8.0, depth = 8
iter = 13604, queue = 19016, heur = -8.0, depth = 8
iter = 13605, queue = 19019, heur = -8.0, depth = 8
iter = 13606, queue = 19022, heur = -8.0, depth = 8
iter = 13607, queue = 19025, heur = -8.0, depth = 8
iter = 13608, queue = 19024, heur = -8.0, depth = 8
iter = 13609, queue = 19025, heur = -8.0, depth = 8
iter = 13610, queue = 19024, heur = -8.0, depth = 8
iter = 13611, queue = 19026, heur = -8.0, depth = 8
iter = 13612, queue = 19028, heur = -8.0, depth = 8
iter = 13613, queue = 19030, heur = -8.0, depth = 8
iter = 13614, queue = 19030, heur = -8.0, depth = 8
iter = 13615, queue = 19031, heur = -8.0, depth = 8
iter = 13616, queue = 19030, heur = -8.0, depth = 8
iter = 13617, queue = 19031, heur = -8.0, depth = 8
iter = 13618, queue = 19030, heur = -8.0, depth = 8
iter = 13619, queue = 19030, heur = -8.0, depth = 8
iter = 13620, queue = 19031, heur = -8.0, depth = 8
iter = 13621, queue = 19034, heur = -8.0, depth = 8
iter = 13622, queue = 19035, heur = -8.0, depth = 8
iter = 13623, queue = 19038, heur = -8.0, depth = 8
iter = 13624, queue = 19039, heur = -8.0, depth = 8
iter = 13625, queue = 19038, heur = -8.0, depth = 8
iter = 13626, queue = 19038, heur = -8.0, depth = 8
iter = 13627, queue = 19041, heur = -8.0, depth = 8
iter = 13628, queue = 19040, heur = -8.0, depth = 8
iter = 13629, queue = 19043, heur = -8.0, depth = 8
iter = 13630, queue = 19044, heur = -8.0, depth = 8
iter = 13631, queue = 19045, heur = -8.0, depth = 8
```

```
iter = 13632, queue = 19046, heur = -8.0, depth = 8
iter = 13633, queue = 19049, heur = -8.0, depth = 8
iter = 13634, queue = 19050, heur = -8.0, depth = 8
iter = 13635, queue = 19051, heur = -8.0, depth = 8
iter = 13636, queue = 19050, heur = -8.0, depth = 8
iter = 13637, queue = 19051, heur = -8.0, depth = 8
iter = 13638, queue = 19051, heur = -8.0, depth = 8
iter = 13639, queue = 19052, heur = -8.0, depth = 8
iter = 13640, queue = 19055, heur = -8.0, depth = 8
iter = 13641, queue = 19057, heur = -8.0, depth = 8
iter = 13642, queue = 19060, heur = -8.0, depth = 9
iter = 13643, queue = 19062, heur = -8.0, depth = 8
iter = 13644, queue = 19063, heur = -8.0, depth = 8
iter = 13645, queue = 19064, heur = -8.0, depth = 8
iter = 13646, queue = 19065, heur = -8.0, depth = 8
iter = 13647, queue = 19068, heur = -8.0, depth = 8
iter = 13648, queue = 19069, heur = -8.0, depth = 8
iter = 13649, queue = 19072, heur = -8.0, depth = 8
iter = 13650, queue = 19073, heur = -8.0, depth = 8
iter = 13651, queue = 19074, heur = -8.0, depth = 8
iter = 13652, queue = 19073, heur = -8.0, depth = 8
iter = 13653, queue = 19072, heur = -8.0, depth = 8
iter = 13654, queue = 19073, heur = -8.0, depth = 8
iter = 13655, queue = 19074, heur = -8.0, depth = 8
iter = 13656, queue = 19077, heur = -8.0, depth = 8
iter = 13657, queue = 19080, heur = -8.0, depth = 8
iter = 13658, queue = 19081, heur = -8.0, depth = 8
iter = 13659, queue = 19083, heur = -8.0, depth = 8
iter = 13660, queue = 19084, heur = -8.0, depth = 8
iter = 13661, queue = 19086, heur = -8.0, depth = 8
iter = 13662, queue = 19089, heur = -8.0, depth = 8
iter = 13663, queue = 19090, heur = -8.0, depth = 8
iter = 13664, queue = 19093, heur = -8.0, depth = 8
iter = 13665, queue = 19096, heur = -8.0, depth = 8
iter = 13666, queue = 19096, heur = -8.0, depth = 8
iter = 13667, queue = 19097, heur = -8.0, depth = 8
iter = 13668, queue = 19100, heur = -8.0, depth = 8
iter = 13669, queue = 19103, heur = -8.0, depth = 8
iter = 13670, queue = 19104, heur = -8.0, depth = 8
iter = 13671, queue = 19105, heur = -8.0, depth = 8
iter = 13672, queue = 19104, heur = -8.0, depth = 8
iter = 13673, queue = 19107, heur = -8.0, depth = 8
iter = 13674, queue = 19106, heur = -8.0, depth = 8
iter = 13675, queue = 19109, heur = -8.0, depth = 8
iter = 13676, queue = 19109, heur = -8.0, depth = 8
iter = 13677, queue = 19112, heur = -8.0, depth = 8
iter = 13678, queue = 19113, heur = -8.0, depth = 8
iter = 13679, queue = 19114, heur = -8.0, depth = 8
iter = 13680, queue = 19115, heur = -8.0, depth = 8
iter = 13681, queue = 19118, heur = -8.0, depth = 8
iter = 13682, queue = 19119, heur = -8.0, depth = 8
iter = 13683, queue = 19120, heur = -8.0, depth = 8
iter = 13684, queue = 19121, heur = -8.0, depth = 8
iter = 13685, queue = 19124, heur = -8.0, depth = 8
iter = 13686, queue = 19124, heur = -8.0, depth = 8
iter = 13687, queue = 19125, heur = -8.0, depth = 8
iter = 13688, queue = 19126, heur = -8.0, depth = 8
iter = 13689, queue = 19127, heur = -8.0, depth = 8
iter = 13690, queue = 19128, heur = -8.0, depth = 8
```

```
iter = 13691, queue = 19127, heur = -8.0, depth = 8
iter = 13692, queue = 19130, heur = -8.0, depth = 8
iter = 13693, queue = 19130, heur = -8.0, depth = 8
iter = 13694, queue = 19131, heur = -8.0, depth = 8
iter = 13695, queue = 19130, heur = -8.0, depth = 8
iter = 13696, queue = 19131, heur = -8.0, depth = 8
iter = 13697, queue = 19134, heur = -8.0, depth = 8
iter = 13698, queue = 19137, heur = -8.0, depth = 8
iter = 13699, queue = 19140, heur = -8.0, depth = 8
iter = 13700, queue = 19142, heur = -8.0, depth = 8
iter = 13701, queue = 19143, heur = -8.0, depth = 8
iter = 13702, queue = 19144, heur = -8.0, depth = 8
iter = 13703, queue = 19145, heur = -8.0, depth = 8
iter = 13704, queue = 19145, heur = -8.0, depth = 8
iter = 13705, queue = 19146, heur = -8.0, depth = 8
iter = 13706, queue = 19147, heur = -8.0, depth = 8
iter = 13707, queue = 19150, heur = -8.0, depth = 8
iter = 13708, queue = 19151, heur = -8.0, depth = 8
iter = 13709, queue = 19153, heur = -8.0, depth = 8
iter = 13710, queue = 19156, heur = -8.0, depth = 8
iter = 13711, queue = 19157, heur = -8.0, depth = 8
iter = 13712, queue = 19158, heur = -8.0, depth = 8
iter = 13713, queue = 19159, heur = -8.0, depth = 8
iter = 13714, queue = 19162, heur = -8.0, depth = 8
iter = 13715, queue = 19162, heur = -8.0, depth = 8
iter = 13716, queue = 19162, heur = -8.0, depth = 8
iter = 13717, queue = 19163, heur = -8.0, depth = 8
iter = 13718, queue = 19166, heur = -8.0, depth = 8
iter = 13719, queue = 19167, heur = -8.0, depth = 8
iter = 13720, queue = 19168, heur = -8.0, depth = 8
iter = 13721, queue = 19170, heur = -8.0, depth = 8
iter = 13722, queue = 19171, heur = -8.0, depth = 8
iter = 13723, queue = 19172, heur = -8.0, depth = 8
iter = 13724, queue = 19174, heur = -8.0, depth = 8
iter = 13725, queue = 19176, heur = -8.0, depth = 8
iter = 13726, queue = 19177, heur = -8.0, depth = 8
iter = 13727, queue = 19178, heur = -8.0, depth = 8
iter = 13728, queue = 19179, heur = -8.0, depth = 8
iter = 13729, queue = 19178, heur = -8.0, depth = 8
iter = 13730, queue = 19177, heur = -8.0, depth = 8
iter = 13731, queue = 19180, heur = -8.0, depth = 8
iter = 13732, queue = 19183, heur = -8.0, depth = 8
iter = 13733, queue = 19184, heur = -8.0, depth = 8
iter = 13734, queue = 19187, heur = -8.0, depth = 8
iter = 13735, queue = 19188, heur = -8.0, depth = 8
iter = 13736, queue = 19189, heur = -8.0, depth = 8
iter = 13737, queue = 19191, heur = -8.0, depth = 8
iter = 13738, queue = 19192, heur = -8.0, depth = 8
iter = 13739, queue = 19193, heur = -8.0, depth = 8
iter = 13740, queue = 19193, heur = -8.0, depth = 8
iter = 13741, queue = 19194, heur = -8.0, depth = 8
iter = 13742, queue = 19195, heur = -8.0, depth = 8
iter = 13743, queue = 19198, heur = -8.0, depth = 8
iter = 13744, queue = 19201, heur = -8.0, depth = 8
iter = 13745, queue = 19204, heur = -8.0, depth = 8
iter = 13746, queue = 19205, heur = -8.0, depth = 8
iter = 13747, queue = 19207, heur = -8.0, depth = 8
iter = 13748, queue = 19207, heur = -8.0, depth = 8
iter = 13749, queue = 19208, heur = -8.0, depth = 8
```

```
iter = 13750, queue = 19211, heur = -8.0, depth = 8
iter = 13751, queue = 19213, heur = -8.0, depth = 8
iter = 13752, queue = 19214, heur = -8.0, depth = 8
iter = 13753, queue = 19215, heur = -8.0, depth = 8
iter = 13754, queue = 19217, heur = -8.0, depth = 8
iter = 13755, queue = 19217, heur = -8.0, depth = 8
iter = 13756, queue = 19218, heur = -8.0, depth = 8
iter = 13757, queue = 19221, heur = -8.0, depth = 8
iter = 13758, queue = 19222, heur = -8.0, depth = 8
iter = 13759, queue = 19221, heur = -8.0, depth = 8
iter = 13760, queue = 19222, heur = -8.0, depth = 8
iter = 13761, queue = 19225, heur = -8.0, depth = 8
iter = 13762, queue = 19224, heur = -8.0, depth = 8
iter = 13763, queue = 19224, heur = -8.0, depth = 8
iter = 13764, queue = 19225, heur = -8.0, depth = 8
iter = 13765, queue = 19226, heur = -8.0, depth = 8
iter = 13766, queue = 19226, heur = -8.0, depth = 8
iter = 13767, queue = 19228, heur = -8.0, depth = 8
iter = 13768, queue = 19229, heur = -8.0, depth = 8
iter = 13769, queue = 19230, heur = -8.0, depth = 8
iter = 13770, queue = 19229, heur = -8.0, depth = 8
iter = 13771, queue = 19232, heur = -8.0, depth = 8
iter = 13772, queue = 19233, heur = -8.0, depth = 8
iter = 13773, queue = 19234, heur = -8.0, depth = 8
iter = 13774, queue = 19235, heur = -8.0, depth = 8
iter = 13775, queue = 19237, heur = -8.0, depth = 8
iter = 13776, queue = 19238, heur = -8.0, depth = 8
iter = 13777, queue = 19239, heur = -8.0, depth = 8
iter = 13778, queue = 19241, heur = -8.0, depth = 8
iter = 13779, queue = 19242, heur = -8.0, depth = 8
iter = 13780, queue = 19242, heur = -8.0, depth = 8
iter = 13781, queue = 19243, heur = -8.0, depth = 8
iter = 13782, queue = 19243, heur = -8.0, depth = 8
iter = 13783, queue = 19243, heur = -8.0, depth = 8
iter = 13784, queue = 19245, heur = -8.0, depth = 8
iter = 13785, queue = 19246, heur = -8.0, depth = 8
iter = 13786, queue = 19248, heur = -8.0, depth = 8
iter = 13787, queue = 19248, heur = -8.0, depth = 8
iter = 13788, queue = 19251, heur = -8.0, depth = 8
iter = 13789, queue = 19253, heur = -8.0, depth = 8
iter = 13790, queue = 19254, heur = -8.0, depth = 8
iter = 13791, queue = 19257, heur = -8.0, depth = 8
iter = 13792, queue = 19258, heur = -8.0, depth = 8
iter = 13793, queue = 19261, heur = -8.0, depth = 8
iter = 13794, queue = 19262, heur = -8.0, depth = 8
iter = 13795, queue = 19263, heur = -8.0, depth = 8
iter = 13796, queue = 19266, heur = -8.0, depth = 8
iter = 13797, queue = 19268, heur = -8.0, depth = 8
iter = 13798, queue = 19268, heur = -8.0, depth = 8
iter = 13799, queue = 19271, heur = -8.0, depth = 8
iter = 13800, queue = 19272, heur = -8.0, depth = 8
iter = 13801, queue = 19273, heur = -8.0, depth = 8
iter = 13802, queue = 19273, heur = -8.0, depth = 8
iter = 13803, queue = 19274, heur = -8.0, depth = 8
iter = 13804, queue = 19277, heur = -8.0, depth = 8
iter = 13805, queue = 19277, heur = -8.0, depth = 8
iter = 13806, queue = 19278, heur = -8.0, depth = 8
iter = 13807, queue = 19280, heur = -8.0, depth = 8
iter = 13808, queue = 19281, heur = -8.0, depth = 8
```

```
iter = 13809, queue = 19283, heur = -8.0, depth = 8
iter = 13810, queue = 19282, heur = -8.0, depth = 8
iter = 13811, queue = 19283, heur = -8.0, depth = 8
iter = 13812, queue = 19284, heur = -8.0, depth = 8
iter = 13813, queue = 19284, heur = -8.0, depth = 8
iter = 13814, queue = 19287, heur = -8.0, depth = 8
iter = 13815, queue = 19287, heur = -8.0, depth = 8
iter = 13816, queue = 19286, heur = -8.0, depth = 8
iter = 13817, queue = 19286, heur = -8.0, depth = 8
iter = 13818, queue = 19287, heur = -8.0, depth = 8
iter = 13819, queue = 19288, heur = -8.0, depth = 8
iter = 13820, queue = 19289, heur = -8.0, depth = 8
iter = 13821, queue = 19290, heur = -8.0, depth = 8
iter = 13822, queue = 19291, heur = -8.0, depth = 8
iter = 13823, queue = 19290, heur = -8.0, depth = 8
iter = 13824, queue = 19291, heur = -8.0, depth = 8
iter = 13825, queue = 19290, heur = -8.0, depth = 8
iter = 13826, queue = 19291, heur = -8.0, depth = 8
iter = 13827, queue = 19292, heur = -8.0, depth = 8
iter = 13828, queue = 19291, heur = -8.0, depth = 8
iter = 13829, queue = 19292, heur = -8.0, depth = 8
iter = 13830, queue = 19295, heur = -8.0, depth = 8
iter = 13831, queue = 19298, heur = -8.0, depth = 8
iter = 13832, queue = 19299, heur = -8.0, depth = 8
iter = 13833, queue = 19300, heur = -8.0, depth = 8
iter = 13834, queue = 19302, heur = -8.0, depth = 8
iter = 13835, queue = 19301, heur = -8.0, depth = 8
iter = 13836, queue = 19304, heur = -8.0, depth = 8
iter = 13837, queue = 19305, heur = -8.0, depth = 8
iter = 13838, queue = 19306, heur = -8.0, depth = 8
iter = 13839, queue = 19306, heur = -8.0, depth = 8
iter = 13840, queue = 19305, heur = -8.0, depth = 8
iter = 13841, queue = 19306, heur = -8.0, depth = 8
iter = 13842, queue = 19308, heur = -8.0, depth = 8
iter = 13843, queue = 19311, heur = -8.0, depth = 8
iter = 13844, queue = 19312, heur = -8.0, depth = 8
iter = 13845, queue = 19311, heur = -8.0, depth = 8
iter = 13846, queue = 19311, heur = -8.0, depth = 8
iter = 13847, queue = 19312, heur = -8.0, depth = 8
iter = 13848, queue = 19313, heur = -8.0, depth = 8
iter = 13849, queue = 19313, heur = -8.0, depth = 8
iter = 13850, queue = 19314, heur = -8.0, depth = 8
iter = 13851, queue = 19315, heur = -8.0, depth = 8
iter = 13852, queue = 19316, heur = -8.0, depth = 8
iter = 13853, queue = 19317, heur = -8.0, depth = 8
iter = 13854, queue = 19318, heur = -8.0, depth = 8
iter = 13855, queue = 19318, heur = -8.0, depth = 8
iter = 13856, queue = 19319, heur = -8.0, depth = 8
iter = 13857, queue = 19318, heur = -8.0, depth = 8
iter = 13858, queue = 19319, heur = -8.0, depth = 8
iter = 13859, queue = 19321, heur = -8.0, depth = 8
iter = 13860, queue = 19322, heur = -8.0, depth = 9
iter = 13861, queue = 19322, heur = -8.0, depth = 8
iter = 13862, queue = 19323, heur = -8.0, depth = 8
iter = 13863, queue = 19326, heur = -8.0, depth = 8
iter = 13864, queue = 19326, heur = -8.0, depth = 8
iter = 13865, queue = 19325, heur = -8.0, depth = 8
iter = 13866, queue = 19326, heur = -8.0, depth = 8
iter = 13867, queue = 19327, heur = -8.0, depth = 8
```

```
iter = 13868, queue = 19327, heur = -8.0, depth = 8
iter = 13869, queue = 19328, heur = -8.0, depth = 8
iter = 13870, queue = 19329, heur = -8.0, depth = 8
iter = 13871, queue = 19330, heur = -8.0, depth = 8
iter = 13872, queue = 19329, heur = -8.0, depth = 10
iter = 13873, queue = 19332, heur = -8.0, depth = 9
iter = 13874, queue = 19335, heur = -8.0, depth = 8
iter = 13875, queue = 19334, heur = -8.0, depth = 8
iter = 13876, queue = 19333, heur = -8.0, depth = 8
iter = 13877, queue = 19336, heur = -8.0, depth = 9
iter = 13878, queue = 19338, heur = -8.0, depth = 8
iter = 13879, queue = 19339, heur = -8.0, depth = 8
iter = 13880, queue = 19340, heur = -8.0, depth = 8
iter = 13881, queue = 19341, heur = -8.0, depth = 8
iter = 13882, queue = 19342, heur = -8.0, depth = 8
iter = 13883, queue = 19344, heur = -8.0, depth = 8
iter = 13884, queue = 19345, heur = -8.0, depth = 8
iter = 13885, queue = 19346, heur = -8.0, depth = 8
iter = 13886, queue = 19347, heur = -8.0, depth = 8
iter = 13887, queue = 19347, heur = -8.0, depth = 8
iter = 13888, queue = 19349, heur = -8.0, depth = 8
iter = 13889, queue = 19350, heur = -8.0, depth = 8
iter = 13890, queue = 19353, heur = -8.0, depth = 8
iter = 13891, queue = 19356, heur = -8.0, depth = 8
iter = 13892, queue = 19358, heur = -8.0, depth = 8
iter = 13893, queue = 19361, heur = -8.0, depth = 8
iter = 13894, queue = 19364, heur = -8.0, depth = 8
iter = 13895, queue = 19366, heur = -8.0, depth = 10
iter = 13896, queue = 19367, heur = -8.0, depth = 8
iter = 13897, queue = 19366, heur = -8.0, depth = 8
iter = 13898, queue = 19369, heur = -8.0, depth = 8
iter = 13899, queue = 19371, heur = -8.0, depth = 8
iter = 13900, queue = 19372, heur = -8.0, depth = 8
iter = 13901, queue = 19375, heur = -8.0, depth = 8
iter = 13902, queue = 19376, heur = -8.0, depth = 8
iter = 13903, queue = 19379, heur = -8.0, depth = 8
iter = 13904, queue = 19379, heur = -8.0, depth = 8
iter = 13905, queue = 19380, heur = -8.0, depth = 8
iter = 13906, queue = 19381, heur = -8.0, depth = 8
iter = 13907, queue = 19380, heur = -8.0, depth = 8
iter = 13908, queue = 19383, heur = -8.0, depth = 8
iter = 13909, queue = 19384, heur = -8.0, depth = 8
iter = 13910, queue = 19384, heur = -8.0, depth = 8
iter = 13911, queue = 19384, heur = -8.0, depth = 8
iter = 13912, queue = 19387, heur = -8.0, depth = 8
iter = 13913, queue = 19388, heur = -8.0, depth = 8
iter = 13914, queue = 19389, heur = -8.0, depth = 8
iter = 13915, queue = 19390, heur = -8.0, depth = 8
iter = 13916, queue = 19391, heur = -8.0, depth = 8
iter = 13917, queue = 19392, heur = -8.0, depth = 8
iter = 13918, queue = 19395, heur = -8.0, depth = 8
iter = 13919, queue = 19396, heur = -8.0, depth = 8
iter = 13920, queue = 19397, heur = -8.0, depth = 8
iter = 13921, queue = 19400, heur = -8.0, depth = 8
iter = 13922, queue = 19403, heur = -8.0, depth = 8
iter = 13923, queue = 19404, heur = -8.0, depth = 8
iter = 13924, queue = 19406, heur = -8.0, depth = 8
iter = 13925, queue = 19409, heur = -8.0, depth = 8
iter = 13926, queue = 19410, heur = -8.0, depth = 8
```

```
iter = 13927, queue = 19410, heur = -8.0, depth = 8
iter = 13928, queue = 19410, heur = -8.0, depth = 8
iter = 13929, queue = 19410, heur = -8.0, depth = 8
iter = 13930, queue = 19411, heur = -8.0, depth = 8
iter = 13931, queue = 19413, heur = -8.0, depth = 8
iter = 13932, queue = 19416, heur = -8.0, depth = 8
iter = 13933, queue = 19419, heur = -8.0, depth = 8
iter = 13934, queue = 19420, heur = -8.0, depth = 8
iter = 13935, queue = 19423, heur = -8.0, depth = 8
iter = 13936, queue = 19426, heur = -8.0, depth = 8
iter = 13937, queue = 19428, heur = -8.0, depth = 8
iter = 13938, queue = 19431, heur = -8.0, depth = 8
iter = 13939, queue = 19433, heur = -8.0, depth = 8
iter = 13940, queue = 19434, heur = -8.0, depth = 8
iter = 13941, queue = 19433, heur = -8.0, depth = 8
iter = 13942, queue = 19436, heur = -8.0, depth = 8
iter = 13943, queue = 19436, heur = -8.0, depth = 8
iter = 13944, queue = 19435, heur = -8.0, depth = 8
iter = 13945, queue = 19436, heur = -8.0, depth = 8
iter = 13946, queue = 19437, heur = -8.0, depth = 8
iter = 13947, queue = 19440, heur = -8.0, depth = 8
iter = 13948, queue = 19441, heur = -8.0, depth = 8
iter = 13949, queue = 19441, heur = -8.0, depth = 8
iter = 13950, queue = 19442, heur = -8.0, depth = 8
iter = 13951, queue = 19443, heur = -8.0, depth = 8
iter = 13952, queue = 19444, heur = -8.0, depth = 8
iter = 13953, queue = 19446, heur = -8.0, depth = 8
iter = 13954, queue = 19449, heur = -8.0, depth = 8
iter = 13955, queue = 19450, heur = -8.0, depth = 8
iter = 13956, queue = 19449, heur = -8.0, depth = 8
iter = 13957, queue = 19450, heur = -8.0, depth = 8
iter = 13958, queue = 19450, heur = -8.0, depth = 8
iter = 13959, queue = 19452, heur = -8.0, depth = 8
iter = 13960, queue = 19455, heur = -8.0, depth = 8
iter = 13961, queue = 19456, heur = -8.0, depth = 8
iter = 13962, queue = 19457, heur = -8.0, depth = 8
iter = 13963, queue = 19459, heur = -8.0, depth = 8
iter = 13964, queue = 19460, heur = -8.0, depth = 8
iter = 13965, queue = 19461, heur = -8.0, depth = 8
iter = 13966, queue = 19463, heur = -8.0, depth = 8
iter = 13967, queue = 19464, heur = -8.0, depth = 8
iter = 13968, queue = 19467, heur = -8.0, depth = 8
iter = 13969, queue = 19468, heur = -8.0, depth = 8
iter = 13970, queue = 19467, heur = -8.0, depth = 8
iter = 13971, queue = 19468, heur = -8.0, depth = 8
iter = 13972, queue = 19469, heur = -8.0, depth = 8
iter = 13973, queue = 19472, heur = -8.0, depth = 8
iter = 13974, queue = 19473, heur = -8.0, depth = 8
iter = 13975, queue = 19475, heur = -8.0, depth = 8
iter = 13976, queue = 19475, heur = -8.0, depth = 8
iter = 13977, queue = 19476, heur = -8.0, depth = 8
iter = 13978, queue = 19477, heur = -8.0, depth = 8
iter = 13979, queue = 19476, heur = -8.0, depth = 8
iter = 13980, queue = 19477, heur = -8.0, depth = 8
iter = 13981, queue = 19478, heur = -8.0, depth = 8
iter = 13982, queue = 19479, heur = -8.0, depth = 8
iter = 13983, queue = 19481, heur = -8.0, depth = 8
iter = 13984, queue = 19482, heur = -8.0, depth = 8
iter = 13985, queue = 19483, heur = -8.0, depth = 8
```

```
iter = 13986, queue = 19484, heur = -8.0, depth = 8
iter = 13987, queue = 19485, heur = -8.0, depth = 8
iter = 13988, queue = 19486, heur = -8.0, depth = 8
iter = 13989, queue = 19487, heur = -8.0, depth = 8
iter = 13990, queue = 19488, heur = -8.0, depth = 8
iter = 13991, queue = 19491, heur = -8.0, depth = 8
iter = 13992, queue = 19492, heur = -8.0, depth = 8
iter = 13993, queue = 19493, heur = -8.0, depth = 8
iter = 13994, queue = 19496, heur = -8.0, depth = 8
iter = 13995, queue = 19498, heur = -8.0, depth = 8
iter = 13996, queue = 19499, heur = -8.0, depth = 8
iter = 13997, queue = 19500, heur = -8.0, depth = 8
iter = 13998, queue = 19500, heur = -8.0, depth = 8
iter = 13999, queue = 19501, heur = -8.0, depth = 8
iter = 14000, queue = 19502, heur = -8.0, depth = 8
iter = 14001, queue = 19504, heur = -8.0, depth = 8
iter = 14002, queue = 19507, heur = -8.0, depth = 8
iter = 14003, queue = 19508, heur = -8.0, depth = 8
iter = 14004, queue = 19507, heur = -8.0, depth = 9
iter = 14005, queue = 19510, heur = -8.0, depth = 8
iter = 14006, queue = 19510, heur = -8.0, depth = 8
iter = 14007, queue = 19512, heur = -8.0, depth = 8
iter = 14008, queue = 19513, heur = -8.0, depth = 8
iter = 14009, queue = 19515, heur = -8.0, depth = 8
iter = 14010, queue = 19516, heur = -8.0, depth = 8
iter = 14011, queue = 19519, heur = -8.0, depth = 8
iter = 14012, queue = 19520, heur = -8.0, depth = 8
iter = 14013, queue = 19521, heur = -8.0, depth = 8
iter = 14014, queue = 19523, heur = -8.0, depth = 8
iter = 14015, queue = 19523, heur = -8.0, depth = 8
iter = 14016, queue = 19524, heur = -8.0, depth = 8
iter = 14017, queue = 19525, heur = -8.0, depth = 8
iter = 14018, queue = 19526, heur = -8.0, depth = 9
iter = 14019, queue = 19526, heur = -8.0, depth = 8
iter = 14020, queue = 19527, heur = -8.0, depth = 8
iter = 14021, queue = 19528, heur = -8.0, depth = 8
iter = 14022, queue = 19527, heur = -8.0, depth = 8
iter = 14023, queue = 19527, heur = -8.0, depth = 8
iter = 14024, queue = 19528, heur = -8.0, depth = 8
iter = 14025, queue = 19529, heur = -8.0, depth = 8
iter = 14026, queue = 19532, heur = -8.0, depth = 8
iter = 14027, queue = 19531, heur = -8.0, depth = 8
iter = 14028, queue = 19534, heur = -8.0, depth = 8
iter = 14029, queue = 19535, heur = -8.0, depth = 8
iter = 14030, queue = 19538, heur = -8.0, depth = 8
iter = 14031, queue = 19539, heur = -8.0, depth = 8
iter = 14032, queue = 19540, heur = -8.0, depth = 8
iter = 14033, queue = 19540, heur = -8.0, depth = 8
iter = 14034, queue = 19541, heur = -8.0, depth = 8
iter = 14035, queue = 19541, heur = -8.0, depth = 8
iter = 14036, queue = 19542, heur = -8.0, depth = 8
iter = 14037, queue = 19543, heur = -8.0, depth = 8
iter = 14038, queue = 19543, heur = -8.0, depth = 8
iter = 14039, queue = 19546, heur = -8.0, depth = 8
iter = 14040, queue = 19545, heur = -8.0, depth = 8
iter = 14041, queue = 19544, heur = -8.0, depth = 8
iter = 14042, queue = 19547, heur = -8.0, depth = 8
iter = 14043, queue = 19548, heur = -8.0, depth = 8
iter = 14044, queue = 19551, heur = -8.0, depth = 8
```

```
iter = 14045, queue = 19554, heur = -8.0, depth = 8
iter = 14046, queue = 19555, heur = -8.0, depth = 8
iter = 14047, queue = 19554, heur = -8.0, depth = 8
iter = 14048, queue = 19555, heur = -8.0, depth = 8
iter = 14049, queue = 19556, heur = -8.0, depth = 8
iter = 14050, queue = 19557, heur = -8.0, depth = 9
iter = 14051, queue = 19557, heur = -8.0, depth = 8
iter = 14052, queue = 19560, heur = -8.0, depth = 8
iter = 14053, queue = 19561, heur = -8.0, depth = 8
iter = 14054, queue = 19562, heur = -8.0, depth = 8
iter = 14055, queue = 19563, heur = -8.0, depth = 8
iter = 14056, queue = 19564, heur = -8.0, depth = 8
iter = 14057, queue = 19565, heur = -8.0, depth = 8
iter = 14058, queue = 19564, heur = -8.0, depth = 8
iter = 14059, queue = 19565, heur = -8.0, depth = 8
iter = 14060, queue = 19567, heur = -8.0, depth = 8
iter = 14061, queue = 19569, heur = -8.0, depth = 9
iter = 14062, queue = 19570, heur = -8.0, depth = 8
iter = 14063, queue = 19570, heur = -8.0, depth = 8
iter = 14064, queue = 19573, heur = -8.0, depth = 8
iter = 14065, queue = 19575, heur = -8.0, depth = 8
iter = 14066, queue = 19577, heur = -8.0, depth = 8
iter = 14067, queue = 19580, heur = -8.0, depth = 8
iter = 14068, queue = 19579, heur = -8.0, depth = 8
iter = 14069, queue = 19578, heur = -8.0, depth = 8
iter = 14070, queue = 19580, heur = -8.0, depth = 8
iter = 14071, queue = 19580, heur = -8.0, depth = 8
iter = 14072, queue = 19583, heur = -8.0, depth = 8
iter = 14073, queue = 19586, heur = -8.0, depth = 8
iter = 14074, queue = 19587, heur = -8.0, depth = 8
iter = 14075, queue = 19589, heur = -8.0, depth = 8
iter = 14076, queue = 19592, heur = -8.0, depth = 8
iter = 14077, queue = 19595, heur = -8.0, depth = 8
iter = 14078, queue = 19598, heur = -8.0, depth = 8
iter = 14079, queue = 19601, heur = -8.0, depth = 8
iter = 14080, queue = 19604, heur = -8.0, depth = 8
iter = 14081, queue = 19603, heur = -8.0, depth = 8
iter = 14082, queue = 19602, heur = -8.0, depth = 8
iter = 14083, queue = 19603, heur = -8.0, depth = 8
iter = 14084, queue = 19604, heur = -8.0, depth = 8
iter = 14085, queue = 19605, heur = -8.0, depth = 8
iter = 14086, queue = 19605, heur = -8.0, depth = 8
iter = 14087, queue = 19606, heur = -8.0, depth = 8
iter = 14088, queue = 19607, heur = -8.0, depth = 8
iter = 14089, queue = 19607, heur = -8.0, depth = 8
iter = 14090, queue = 19607, heur = -8.0, depth = 8
iter = 14091, queue = 19610, heur = -8.0, depth = 8
iter = 14092, queue = 19612, heur = -8.0, depth = 8
iter = 14093, queue = 19612, heur = -8.0, depth = 8
iter = 14094, queue = 19613, heur = -8.0, depth = 8
iter = 14095, queue = 19614, heur = -8.0, depth = 8
iter = 14096, queue = 19615, heur = -8.0, depth = 8
iter = 14097, queue = 19616, heur = -8.0, depth = 8
iter = 14098, queue = 19617, heur = -8.0, depth = 8
iter = 14099, queue = 19618, heur = -8.0, depth = 8
iter = 14100, queue = 19617, heur = -8.0, depth = 8
iter = 14101, queue = 19620, heur = -8.0, depth = 8
iter = 14102, queue = 19620, heur = -8.0, depth = 8
iter = 14103, queue = 19621, heur = -8.0, depth = 8
```

```
iter = 14104, queue = 19622, heur = -8.0, depth = 8
iter = 14105, queue = 19625, heur = -8.0, depth = 8
iter = 14106, queue = 19626, heur = -8.0, depth = 8
iter = 14107, queue = 19627, heur = -8.0, depth = 8
iter = 14108, queue = 19626, heur = -8.0, depth = 8
iter = 14109, queue = 19627, heur = -8.0, depth = 8
iter = 14110, queue = 19628, heur = -8.0, depth = 8
iter = 14111, queue = 19629, heur = -8.0, depth = 8
iter = 14112, queue = 19630, heur = -8.0, depth = 8
iter = 14113, queue = 19631, heur = -8.0, depth = 8
iter = 14114, queue = 19632, heur = -8.0, depth = 8
iter = 14115, queue = 19632, heur = -8.0, depth = 8
iter = 14116, queue = 19633, heur = -8.0, depth = 8
iter = 14117, queue = 19633, heur = -8.0, depth = 8
iter = 14118, queue = 19634, heur = -8.0, depth = 8
iter = 14119, queue = 19637, heur = -8.0, depth = 8
iter = 14120, queue = 19640, heur = -8.0, depth = 8
iter = 14121, queue = 19643, heur = -8.0, depth = 8
iter = 14122, queue = 19645, heur = -8.0, depth = 8
iter = 14123, queue = 19647, heur = -8.0, depth = 8
iter = 14124, queue = 19649, heur = -8.0, depth = 8
iter = 14125, queue = 19648, heur = -8.0, depth = 8
iter = 14126, queue = 19649, heur = -8.0, depth = 8
iter = 14127, queue = 19652, heur = -8.0, depth = 8
iter = 14128, queue = 19652, heur = -8.0, depth = 8
iter = 14129, queue = 19653, heur = -8.0, depth = 8
iter = 14130, queue = 19654, heur = -8.0, depth = 9
iter = 14131, queue = 19657, heur = -8.0, depth = 8
iter = 14132, queue = 19656, heur = -8.0, depth = 8
iter = 14133, queue = 19659, heur = -8.0, depth = 8
iter = 14134, queue = 19660, heur = -8.0, depth = 8
iter = 14135, queue = 19661, heur = -8.0, depth = 8
iter = 14136, queue = 19664, heur = -8.0, depth = 8
iter = 14137, queue = 19665, heur = -8.0, depth = 8
iter = 14138, queue = 19665, heur = -8.0, depth = 8
iter = 14139, queue = 19667, heur = -8.0, depth = 8
iter = 14140, queue = 19666, heur = -8.0, depth = 8
iter = 14141, queue = 19668, heur = -8.0, depth = 8
iter = 14142, queue = 19671, heur = -8.0, depth = 8
iter = 14143, queue = 19673, heur = -8.0, depth = 8
iter = 14144, queue = 19674, heur = -8.0, depth = 8
iter = 14145, queue = 19675, heur = -8.0, depth = 8
iter = 14146, queue = 19676, heur = -8.0, depth = 8
iter = 14147, queue = 19677, heur = -8.0, depth = 8
iter = 14148, queue = 19678, heur = -8.0, depth = 8
iter = 14149, queue = 19679, heur = -8.0, depth = 8
iter = 14150, queue = 19682, heur = -8.0, depth = 8
iter = 14151, queue = 19685, heur = -8.0, depth = 8
iter = 14152, queue = 19687, heur = -8.0, depth = 8
iter = 14153, queue = 19688, heur = -8.0, depth = 8
iter = 14154, queue = 19689, heur = -8.0, depth = 8
iter = 14155, queue = 19690, heur = -8.0, depth = 8
iter = 14156, queue = 19691, heur = -8.0, depth = 8
iter = 14157, queue = 19692, heur = -8.0, depth = 8
iter = 14158, queue = 19693, heur = -8.0, depth = 8
iter = 14159, queue = 19693, heur = -8.0, depth = 8
iter = 14160, queue = 19694, heur = -8.0, depth = 8
iter = 14161, queue = 19695, heur = -8.0, depth = 8
iter = 14162, queue = 19695, heur = -8.0, depth = 8
```

```
iter = 14163, queue = 19696, heur = -8.0, depth = 8
iter = 14164, queue = 19699, heur = -8.0, depth = 8
iter = 14165, queue = 19700, heur = -8.0, depth = 8
iter = 14166, queue = 19700, heur = -8.0, depth = 8
iter = 14167, queue = 19703, heur = -8.0, depth = 8
iter = 14168, queue = 19703, heur = -8.0, depth = 8
iter = 14169, queue = 19706, heur = -8.0, depth = 8
iter = 14170, queue = 19707, heur = -8.0, depth = 8
iter = 14171, queue = 19709, heur = -8.0, depth = 8
iter = 14172, queue = 19710, heur = -8.0, depth = 8
iter = 14173, queue = 19710, heur = -8.0, depth = 8
iter = 14174, queue = 19711, heur = -8.0, depth = 8
iter = 14175, queue = 19712, heur = -8.0, depth = 8
iter = 14176, queue = 19713, heur = -8.0, depth = 8
iter = 14177, queue = 19714, heur = -8.0, depth = 8
iter = 14178, queue = 19717, heur = -8.0, depth = 8
iter = 14179, queue = 19718, heur = -8.0, depth = 8
iter = 14180, queue = 19721, heur = -8.0, depth = 8
iter = 14181, queue = 19724, heur = -8.0, depth = 8
iter = 14182, queue = 19723, heur = -8.0, depth = 8
iter = 14183, queue = 19725, heur = -8.0, depth = 8
iter = 14184, queue = 19726, heur = -8.0, depth = 9
iter = 14185, queue = 19726, heur = -8.0, depth = 8
iter = 14186, queue = 19725, heur = -8.0, depth = 8
iter = 14187, queue = 19726, heur = -8.0, depth = 8
iter = 14188, queue = 19727, heur = -8.0, depth = 8
iter = 14189, queue = 19727, heur = -8.0, depth = 8
iter = 14190, queue = 19727, heur = -8.0, depth = 8
iter = 14191, queue = 19730, heur = -8.0, depth = 8
iter = 14192, queue = 19731, heur = -8.0, depth = 8
iter = 14193, queue = 19730, heur = -8.0, depth = 8
iter = 14194, queue = 19733, heur = -8.0, depth = 8
iter = 14195, queue = 19736, heur = -8.0, depth = 8
iter = 14196, queue = 19736, heur = -8.0, depth = 8
iter = 14197, queue = 19737, heur = -8.0, depth = 8
iter = 14198, queue = 19738, heur = -8.0, depth = 8
iter = 14199, queue = 19739, heur = -8.0, depth = 8
iter = 14200, queue = 19739, heur = -8.0, depth = 8
iter = 14201, queue = 19740, heur = -8.0, depth = 8
iter = 14202, queue = 19741, heur = -8.0, depth = 8
iter = 14203, queue = 19742, heur = -8.0, depth = 8
iter = 14204, queue = 19744, heur = -8.0, depth = 8
iter = 14205, queue = 19747, heur = -8.0, depth = 8
iter = 14206, queue = 19748, heur = -8.0, depth = 8
iter = 14207, queue = 19751, heur = -8.0, depth = 8
iter = 14208, queue = 19754, heur = -8.0, depth = 8
iter = 14209, queue = 19757, heur = -8.0, depth = 8
iter = 14210, queue = 19756, heur = -8.0, depth = 8
iter = 14211, queue = 19759, heur = -8.0, depth = 8
iter = 14212, queue = 19760, heur = -8.0, depth = 8
iter = 14213, queue = 19762, heur = -8.0, depth = 8
iter = 14214, queue = 19764, heur = -8.0, depth = 8
iter = 14215, queue = 19766, heur = -8.0, depth = 8
iter = 14216, queue = 19767, heur = -8.0, depth = 8
iter = 14217, queue = 19768, heur = -8.0, depth = 8
iter = 14218, queue = 19770, heur = -8.0, depth = 8
iter = 14219, queue = 19770, heur = -8.0, depth = 8
iter = 14220, queue = 19771, heur = -8.0, depth = 8
iter = 14221, queue = 19772, heur = -8.0, depth = 8
```

```
iter = 14222, queue = 19774, heur = -8.0, depth = 8
iter = 14223, queue = 19775, heur = -8.0, depth = 8
iter = 14224, queue = 19776, heur = -8.0, depth = 8
iter = 14225, queue = 19777, heur = -8.0, depth = 8
iter = 14226, queue = 19778, heur = -8.0, depth = 8
iter = 14227, queue = 19781, heur = -8.0, depth = 9
iter = 14228, queue = 19784, heur = -8.0, depth = 8
iter = 14229, queue = 19785, heur = -8.0, depth = 8
iter = 14230, queue = 19788, heur = -8.0, depth = 8
iter = 14231, queue = 19788, heur = -8.0, depth = 8
iter = 14232, queue = 19791, heur = -8.0, depth = 8
iter = 14233, queue = 19791, heur = -8.0, depth = 8
iter = 14234, queue = 19792, heur = -8.0, depth = 8
iter = 14235, queue = 19793, heur = -8.0, depth = 8
iter = 14236, queue = 19794, heur = -8.0, depth = 8
iter = 14237, queue = 19796, heur = -8.0, depth = 8
iter = 14238, queue = 19796, heur = -8.0, depth = 8
iter = 14239, queue = 19797, heur = -8.0, depth = 8
iter = 14240, queue = 19797, heur = -8.0, depth = 8
iter = 14241, queue = 19797, heur = -8.0, depth = 8
iter = 14242, queue = 19800, heur = -8.0, depth = 8
iter = 14243, queue = 19803, heur = -8.0, depth = 8
iter = 14244, queue = 19802, heur = -8.0, depth = 8
iter = 14245, queue = 19803, heur = -8.0, depth = 8
iter = 14246, queue = 19804, heur = -8.0, depth = 8
iter = 14247, queue = 19807, heur = -8.0, depth = 8
iter = 14248, queue = 19808, heur = -8.0, depth = 8
iter = 14249, queue = 19810, heur = -8.0, depth = 8
iter = 14250, queue = 19813, heur = -8.0, depth = 8
iter = 14251, queue = 19814, heur = -8.0, depth = 8
iter = 14252, queue = 19815, heur = -8.0, depth = 8
iter = 14253, queue = 19814, heur = -8.0, depth = 8
iter = 14254, queue = 19815, heur = -8.0, depth = 8
iter = 14255, queue = 19817, heur = -8.0, depth = 8
iter = 14256, queue = 19820, heur = -8.0, depth = 8
iter = 14257, queue = 19821, heur = -8.0, depth = 8
iter = 14258, queue = 19822, heur = -8.0, depth = 8
iter = 14259, queue = 19822, heur = -8.0, depth = 8
iter = 14260, queue = 19822, heur = -8.0, depth = 8
iter = 14261, queue = 19823, heur = -8.0, depth = 8
iter = 14262, queue = 19822, heur = -8.0, depth = 8
iter = 14263, queue = 19823, heur = -8.0, depth = 8
iter = 14264, queue = 19826, heur = -8.0, depth = 8
iter = 14265, queue = 19829, heur = -8.0, depth = 8
iter = 14266, queue = 19832, heur = -8.0, depth = 8
iter = 14267, queue = 19833, heur = -8.0, depth = 8
iter = 14268, queue = 19835, heur = -8.0, depth = 8
iter = 14269, queue = 19837, heur = -8.0, depth = 8
iter = 14270, queue = 19836, heur = -8.0, depth = 8
iter = 14271, queue = 19839, heur = -8.0, depth = 8
iter = 14272, queue = 19840, heur = -8.0, depth = 8
iter = 14273, queue = 19842, heur = -8.0, depth = 8
iter = 14274, queue = 19845, heur = -8.0, depth = 8
iter = 14275, queue = 19848, heur = -8.0, depth = 8
iter = 14276, queue = 19849, heur = -8.0, depth = 8
iter = 14277, queue = 19852, heur = -8.0, depth = 8
iter = 14278, queue = 19851, heur = -8.0, depth = 8
iter = 14279, queue = 19852, heur = -8.0, depth = 8
iter = 14280, queue = 19853, heur = -8.0, depth = 8
```

```
iter = 14281, queue = 19854, heur = -8.0, depth = 8
iter = 14282, queue = 19857, heur = -8.0, depth = 8
iter = 14283, queue = 19858, heur = -8.0, depth = 8
iter = 14284, queue = 19859, heur = -8.0, depth = 8
iter = 14285, queue = 19859, heur = -8.0, depth = 8
iter = 14286, queue = 19862, heur = -8.0, depth = 8
iter = 14287, queue = 19864, heur = -8.0, depth = 8
iter = 14288, queue = 19863, heur = -8.0, depth = 8
iter = 14289, queue = 19863, heur = -8.0, depth = 8
iter = 14290, queue = 19865, heur = -8.0, depth = 8
iter = 14291, queue = 19864, heur = -8.0, depth = 8
iter = 14292, queue = 19864, heur = -8.0, depth = 8
iter = 14293, queue = 19863, heur = -8.0, depth = 8
iter = 14294, queue = 19866, heur = -8.0, depth = 8
iter = 14295, queue = 19869, heur = -8.0, depth = 8
iter = 14296, queue = 19872, heur = -8.0, depth = 8
iter = 14297, queue = 19873, heur = -8.0, depth = 8
iter = 14298, queue = 19876, heur = -8.0, depth = 8
iter = 14299, queue = 19877, heur = -8.0, depth = 8
iter = 14300, queue = 19878, heur = -8.0, depth = 8
iter = 14301, queue = 19879, heur = -8.0, depth = 8
iter = 14302, queue = 19878, heur = -8.0, depth = 8
iter = 14303, queue = 19881, heur = -8.0, depth = 8
iter = 14304, queue = 19881, heur = -8.0, depth = 8
iter = 14305, queue = 19884, heur = -8.0, depth = 8
iter = 14306, queue = 19884, heur = -8.0, depth = 8
iter = 14307, queue = 19885, heur = -8.0, depth = 8
iter = 14308, queue = 19885, heur = -8.0, depth = 8
iter = 14309, queue = 19886, heur = -8.0, depth = 8
iter = 14310, queue = 19889, heur = -8.0, depth = 9
iter = 14311, queue = 19889, heur = -8.0, depth = 8
iter = 14312, queue = 19892, heur = -8.0, depth = 8
iter = 14313, queue = 19893, heur = -8.0, depth = 8
iter = 14314, queue = 19896, heur = -8.0, depth = 8
iter = 14315, queue = 19898, heur = -8.0, depth = 8
iter = 14316, queue = 19901, heur = -8.0, depth = 8
iter = 14317, queue = 19902, heur = -8.0, depth = 8
iter = 14318, queue = 19904, heur = -8.0, depth = 8
iter = 14319, queue = 19905, heur = -8.0, depth = 8
iter = 14320, queue = 19906, heur = -8.0, depth = 8
iter = 14321, queue = 19907, heur = -8.0, depth = 8
iter = 14322, queue = 19908, heur = -8.0, depth = 8
iter = 14323, queue = 19909, heur = -8.0, depth = 8
iter = 14324, queue = 19912, heur = -8.0, depth = 8
iter = 14325, queue = 19915, heur = -8.0, depth = 8
iter = 14326, queue = 19914, heur = -8.0, depth = 8
iter = 14327, queue = 19916, heur = -8.0, depth = 8
iter = 14328, queue = 19918, heur = -8.0, depth = 8
iter = 14329, queue = 19919, heur = -8.0, depth = 8
iter = 14330, queue = 19921, heur = -8.0, depth = 8
iter = 14331, queue = 19924, heur = -8.0, depth = 8
iter = 14332, queue = 19925, heur = -8.0, depth = 8
iter = 14333, queue = 19926, heur = -8.0, depth = 8
iter = 14334, queue = 19928, heur = -8.0, depth = 8
iter = 14335, queue = 19929, heur = -8.0, depth = 8
iter = 14336, queue = 19930, heur = -8.0, depth = 8
iter = 14337, queue = 19933, heur = -8.0, depth = 8
iter = 14338, queue = 19934, heur = -8.0, depth = 8
iter = 14339, queue = 19937, heur = -8.0, depth = 8
```

```
iter = 14340, queue = 19939, heur = -8.0, depth = 9
iter = 14341, queue = 19938, heur = -8.0, depth = 8
iter = 14342, queue = 19939, heur = -8.0, depth = 8
iter = 14343, queue = 19940, heur = -8.0, depth = 8
iter = 14344, queue = 19941, heur = -8.0, depth = 8
iter = 14345, queue = 19943, heur = -8.0, depth = 8
iter = 14346, queue = 19943, heur = -8.0, depth = 8
iter = 14347, queue = 19944, heur = -8.0, depth = 8
iter = 14348, queue = 19944, heur = -8.0, depth = 8
iter = 14349, queue = 19945, heur = -8.0, depth = 8
iter = 14350, queue = 19946, heur = -8.0, depth = 8
iter = 14351, queue = 19949, heur = -8.0, depth = 8
iter = 14352, queue = 19950, heur = -8.0, depth = 8
iter = 14353, queue = 19953, heur = -8.0, depth = 8
iter = 14354, queue = 19954, heur = -8.0, depth = 8
iter = 14355, queue = 19955, heur = -8.0, depth = 8
iter = 14356, queue = 19956, heur = -8.0, depth = 8
iter = 14357, queue = 19959, heur = -8.0, depth = 8
iter = 14358, queue = 19958, heur = -8.0, depth = 8
iter = 14359, queue = 19960, heur = -8.0, depth = 8
iter = 14360, queue = 19959, heur = -8.0, depth = 8
iter = 14361, queue = 19958, heur = -8.0, depth = 8
iter = 14362, queue = 19958, heur = -8.0, depth = 8
iter = 14363, queue = 19957, heur = -8.0, depth = 8
iter = 14364, queue = 19960, heur = -8.0, depth = 8
iter = 14365, queue = 19961, heur = -8.0, depth = 8
iter = 14366, queue = 19962, heur = -8.0, depth = 8
iter = 14367, queue = 19963, heur = -8.0, depth = 8
iter = 14368, queue = 19962, heur = -8.0, depth = 8
iter = 14369, queue = 19963, heur = -8.0, depth = 8
iter = 14370, queue = 19964, heur = -8.0, depth = 8
iter = 14371, queue = 19967, heur = -8.0, depth = 8
iter = 14372, queue = 19967, heur = -8.0, depth = 8
iter = 14373, queue = 19969, heur = -8.0, depth = 10
iter = 14374, queue = 19969, heur = -8.0, depth = 8
iter = 14375, queue = 19971, heur = -8.0, depth = 8
iter = 14376, queue = 19973, heur = -8.0, depth = 8
iter = 14377, queue = 19973, heur = -8.0, depth = 8
iter = 14378, queue = 19976, heur = -8.0, depth = 8
iter = 14379, queue = 19977, heur = -8.0, depth = 8
iter = 14380, queue = 19980, heur = -8.0, depth = 8
iter = 14381, queue = 19981, heur = -8.0, depth = 8
iter = 14382, queue = 19982, heur = -8.0, depth = 8
iter = 14383, queue = 19983, heur = -8.0, depth = 8
iter = 14384, queue = 19985, heur = -8.0, depth = 8
iter = 14385, queue = 19987, heur = -8.0, depth = 8
iter = 14386, queue = 19986, heur = -8.0, depth = 8
iter = 14387, queue = 19987, heur = -8.0, depth = 9
iter = 14388, queue = 19990, heur = -8.0, depth = 8
iter = 14389, queue = 19989, heur = -8.0, depth = 8
iter = 14390, queue = 19988, heur = -8.0, depth = 8
iter = 14391, queue = 19989, heur = -8.0, depth = 8
iter = 14392, queue = 19992, heur = -8.0, depth = 8
iter = 14393, queue = 19992, heur = -8.0, depth = 8
iter = 14394, queue = 19995, heur = -8.0, depth = 8
iter = 14395, queue = 19998, heur = -8.0, depth = 8
iter = 14396, queue = 19999, heur = -8.0, depth = 8
iter = 14397, queue = 19999, heur = -8.0, depth = 8
iter = 14398, queue = 20000, heur = -8.0, depth = 8
```

```
iter = 14399, queue = 20003, heur = -8.0, depth = 8
iter = 14400, queue = 20003, heur = -8.0, depth = 8
iter = 14401, queue = 20004, heur = -8.0, depth = 8
iter = 14402, queue = 20005, heur = -8.0, depth = 8
iter = 14403, queue = 20006, heur = -8.0, depth = 8
iter = 14404, queue = 20009, heur = -8.0, depth = 8
iter = 14405, queue = 20010, heur = -8.0, depth = 8
iter = 14406, queue = 20013, heur = -8.0, depth = 8
iter = 14407, queue = 20014, heur = -8.0, depth = 8
iter = 14408, queue = 20014, heur = -8.0, depth = 8
iter = 14409, queue = 20017, heur = -8.0, depth = 8
iter = 14410, queue = 20018, heur = -8.0, depth = 8
iter = 14411, queue = 20020, heur = -8.0, depth = 8
iter = 14412, queue = 20021, heur = -8.0, depth = 8
iter = 14413, queue = 20021, heur = -8.0, depth = 8
iter = 14414, queue = 20022, heur = -8.0, depth = 8
iter = 14415, queue = 20023, heur = -8.0, depth = 8
iter = 14416, queue = 20024, heur = -8.0, depth = 8
iter = 14417, queue = 20027, heur = -8.0, depth = 8
iter = 14418, queue = 20028, heur = -8.0, depth = 8
iter = 14419, queue = 20029, heur = -8.0, depth = 8
iter = 14420, queue = 20032, heur = -8.0, depth = 8
iter = 14421, queue = 20031, heur = -8.0, depth = 8
iter = 14422, queue = 20032, heur = -8.0, depth = 8
iter = 14423, queue = 20033, heur = -8.0, depth = 8
iter = 14424, queue = 20034, heur = -8.0, depth = 8
iter = 14425, queue = 20037, heur = -8.0, depth = 8
iter = 14426, queue = 20040, heur = -8.0, depth = 8
iter = 14427, queue = 20042, heur = -8.0, depth = 8
iter = 14428, queue = 20045, heur = -8.0, depth = 8
iter = 14429, queue = 20048, heur = -8.0, depth = 8
iter = 14430, queue = 20049, heur = -8.0, depth = 8
iter = 14431, queue = 20048, heur = -8.0, depth = 8
iter = 14432, queue = 20049, heur = -8.0, depth = 8
iter = 14433, queue = 20049, heur = -8.0, depth = 8
iter = 14434, queue = 20049, heur = -8.0, depth = 8
iter = 14435, queue = 20050, heur = -8.0, depth = 8
iter = 14436, queue = 20052, heur = -8.0, depth = 8
iter = 14437, queue = 20052, heur = -8.0, depth = 8
iter = 14438, queue = 20053, heur = -8.0, depth = 8
iter = 14439, queue = 20052, heur = -8.0, depth = 8
iter = 14440, queue = 20053, heur = -8.0, depth = 8
iter = 14441, queue = 20056, heur = -8.0, depth = 8
iter = 14442, queue = 20057, heur = -8.0, depth = 8
iter = 14443, queue = 20060, heur = -8.0, depth = 8
iter = 14444, queue = 20063, heur = -8.0, depth = 8
iter = 14445, queue = 20064, heur = -8.0, depth = 8
iter = 14446, queue = 20065, heur = -8.0, depth = 8
iter = 14447, queue = 20066, heur = -8.0, depth = 8
iter = 14448, queue = 20069, heur = -8.0, depth = 8
iter = 14449, queue = 20070, heur = -8.0, depth = 8
iter = 14450, queue = 20072, heur = -8.0, depth = 8
iter = 14451, queue = 20073, heur = -8.0, depth = 8
iter = 14452, queue = 20076, heur = -8.0, depth = 8
iter = 14453, queue = 20077, heur = -8.0, depth = 8
iter = 14454, queue = 20078, heur = -8.0, depth = 8
iter = 14455, queue = 20079, heur = -8.0, depth = 8
iter = 14456, queue = 20082, heur = -8.0, depth = 8
iter = 14457, queue = 20083, heur = -8.0, depth = 8
```

```
iter = 14458, queue = 20084, heur = -8.0, depth = 8
iter = 14459, queue = 20087, heur = -8.0, depth = 8
iter = 14460, queue = 20090, heur = -8.0, depth = 8
iter = 14461, queue = 20090, heur = -8.0, depth = 8
iter = 14462, queue = 20093, heur = -8.0, depth = 8
iter = 14463, queue = 20096, heur = -8.0, depth = 8
iter = 14464, queue = 20097, heur = -8.0, depth = 8
iter = 14465, queue = 20099, heur = -8.0, depth = 8
iter = 14466, queue = 20100, heur = -8.0, depth = 8
iter = 14467, queue = 20103, heur = -8.0, depth = 8
iter = 14468, queue = 20104, heur = -8.0, depth = 8
iter = 14469, queue = 20105, heur = -8.0, depth = 8
iter = 14470, queue = 20106, heur = -8.0, depth = 8
iter = 14471, queue = 20105, heur = -8.0, depth = 8
iter = 14472, queue = 20106, heur = -8.0, depth = 8
iter = 14473, queue = 20105, heur = -8.0, depth = 8
iter = 14474, queue = 20108, heur = -8.0, depth = 8
iter = 14475, queue = 20109, heur = -8.0, depth = 8
iter = 14476, queue = 20112, heur = -8.0, depth = 8
iter = 14477, queue = 20115, heur = -8.0, depth = 8
iter = 14478, queue = 20118, heur = -8.0, depth = 8
iter = 14479, queue = 20119, heur = -8.0, depth = 8
iter = 14480, queue = 20120, heur = -8.0, depth = 8
iter = 14481, queue = 20121, heur = -8.0, depth = 8
iter = 14482, queue = 20122, heur = -8.0, depth = 8
iter = 14483, queue = 20123, heur = -8.0, depth = 8
iter = 14484, queue = 20124, heur = -8.0, depth = 8
iter = 14485, queue = 20127, heur = -8.0, depth = 8
iter = 14486, queue = 20128, heur = -8.0, depth = 8
iter = 14487, queue = 20129, heur = -8.0, depth = 8
iter = 14488, queue = 20130, heur = -8.0, depth = 8
iter = 14489, queue = 20133, heur = -8.0, depth = 8
iter = 14490, queue = 20133, heur = -8.0, depth = 8
iter = 14491, queue = 20136, heur = -8.0, depth = 8
iter = 14492, queue = 20139, heur = -8.0, depth = 8
iter = 14493, queue = 20142, heur = -8.0, depth = 8
iter = 14494, queue = 20145, heur = -8.0, depth = 8
iter = 14495, queue = 20148, heur = -8.0, depth = 8
iter = 14496, queue = 20151, heur = -8.0, depth = 8
iter = 14497, queue = 20152, heur = -8.0, depth = 8
iter = 14498, queue = 20153, heur = -8.0, depth = 8
iter = 14499, queue = 20156, heur = -8.0, depth = 8
iter = 14500, queue = 20158, heur = -8.0, depth = 8
iter = 14501, queue = 20161, heur = -8.0, depth = 8
iter = 14502, queue = 20164, heur = -8.0, depth = 8
iter = 14503, queue = 20167, heur = -8.0, depth = 8
iter = 14504, queue = 20170, heur = -8.0, depth = 8
iter = 14505, queue = 20172, heur = -8.0, depth = 8
iter = 14506, queue = 20173, heur = -8.0, depth = 8
iter = 14507, queue = 20174, heur = -8.0, depth = 8
iter = 14508, queue = 20176, heur = -8.0, depth = 8
iter = 14509, queue = 20177, heur = -8.0, depth = 8
iter = 14510, queue = 20179, heur = -8.0, depth = 8
iter = 14511, queue = 20181, heur = -8.0, depth = 8
iter = 14512, queue = 20184, heur = -8.0, depth = 8
iter = 14513, queue = 20185, heur = -8.0, depth = 8
iter = 14514, queue = 20187, heur = -8.0, depth = 8
iter = 14515, queue = 20190, heur = -8.0, depth = 8
iter = 14516, queue = 20191, heur = -8.0, depth = 8
```

```
iter = 14517, queue = 20192, heur = -8.0, depth = 8
iter = 14518, queue = 20193, heur = -8.0, depth = 8
iter = 14519, queue = 20196, heur = -8.0, depth = 8
iter = 14520, queue = 20199, heur = -8.0, depth = 8
iter = 14521, queue = 20200, heur = -8.0, depth = 8
iter = 14522, queue = 20202, heur = -8.0, depth = 8
iter = 14523, queue = 20203, heur = -8.0, depth = 8
iter = 14524, queue = 20205, heur = -8.0, depth = 8
iter = 14525, queue = 20208, heur = -8.0, depth = 8
iter = 14526, queue = 20207, heur = -8.0, depth = 8
iter = 14527, queue = 20206, heur = -8.0, depth = 8
iter = 14528, queue = 20207, heur = -8.0, depth = 8
iter = 14529, queue = 20208, heur = -8.0, depth = 8
iter = 14530, queue = 20209, heur = -8.0, depth = 8
iter = 14531, queue = 20212, heur = -8.0, depth = 8
iter = 14532, queue = 20215, heur = -8.0, depth = 8
iter = 14533, queue = 20216, heur = -8.0, depth = 8
iter = 14534, queue = 20217, heur = -8.0, depth = 8
iter = 14535, queue = 20218, heur = -8.0, depth = 8
iter = 14536, queue = 20221, heur = -8.0, depth = 8
iter = 14537, queue = 20222, heur = -8.0, depth = 8
iter = 14538, queue = 20225, heur = -8.0, depth = 8
iter = 14539, queue = 20227, heur = -8.0, depth = 8
iter = 14540, queue = 20228, heur = -8.0, depth = 8
iter = 14541, queue = 20229, heur = -8.0, depth = 8
iter = 14542, queue = 20232, heur = -8.0, depth = 8
iter = 14543, queue = 20233, heur = -8.0, depth = 8
iter = 14544, queue = 20234, heur = -8.0, depth = 8
iter = 14545, queue = 20234, heur = -8.0, depth = 8
iter = 14546, queue = 20235, heur = -8.0, depth = 8
iter = 14547, queue = 20238, heur = -8.0, depth = 8
iter = 14548, queue = 20239, heur = -8.0, depth = 8
iter = 14549, queue = 20242, heur = -8.0, depth = 8
iter = 14550, queue = 20244, heur = -8.0, depth = 8
iter = 14551, queue = 20245, heur = -8.0, depth = 8
iter = 14552, queue = 20248, heur = -8.0, depth = 8
iter = 14553, queue = 20251, heur = -8.0, depth = 8
iter = 14554, queue = 20253, heur = -8.0, depth = 8
iter = 14555, queue = 20255, heur = -8.0, depth = 8
iter = 14556, queue = 20255, heur = -8.0, depth = 8
iter = 14557, queue = 20255, heur = -8.0, depth = 8
iter = 14558, queue = 20256, heur = -8.0, depth = 8
iter = 14559, queue = 20259, heur = -8.0, depth = 8
iter = 14560, queue = 20260, heur = -8.0, depth = 9
iter = 14561, queue = 20261, heur = -8.0, depth = 8
iter = 14562, queue = 20260, heur = -8.0, depth = 8
iter = 14563, queue = 20259, heur = -8.0, depth = 8
iter = 14564, queue = 20259, heur = -8.0, depth = 8
iter = 14565, queue = 20258, heur = -8.0, depth = 8
iter = 14566, queue = 20259, heur = -8.0, depth = 8
iter = 14567, queue = 20260, heur = -8.0, depth = 8
iter = 14568, queue = 20259, heur = -8.0, depth = 8
iter = 14569, queue = 20258, heur = -8.0, depth = 8
iter = 14570, queue = 20259, heur = -8.0, depth = 9
iter = 14571, queue = 20261, heur = -8.0, depth = 8
iter = 14572, queue = 20260, heur = -8.0, depth = 8
iter = 14573, queue = 20261, heur = -8.0, depth = 8
iter = 14574, queue = 20261, heur = -8.0, depth = 8
iter = 14575, queue = 20260, heur = -8.0, depth = 8
```

```
iter = 14576, queue = 20261, heur = -8.0, depth = 8
iter = 14577, queue = 20260, heur = -8.0, depth = 8
iter = 14578, queue = 20263, heur = -8.0, depth = 8
iter = 14579, queue = 20264, heur = -8.0, depth = 8
iter = 14580, queue = 20265, heur = -8.0, depth = 8
iter = 14581, queue = 20266, heur = -8.0, depth = 8
iter = 14582, queue = 20266, heur = -8.0, depth = 8
iter = 14583, queue = 20267, heur = -8.0, depth = 8
iter = 14584, queue = 20270, heur = -8.0, depth = 8
iter = 14585, queue = 20270, heur = -8.0, depth = 8
iter = 14586, queue = 20271, heur = -8.0, depth = 8
iter = 14587, queue = 20273, heur = -8.0, depth = 8
iter = 14588, queue = 20272, heur = -8.0, depth = 9
iter = 14589, queue = 20271, heur = -8.0, depth = 8
iter = 14590, queue = 20272, heur = -8.0, depth = 8
iter = 14591, queue = 20275, heur = -8.0, depth = 8
iter = 14592, queue = 20278, heur = -8.0, depth = 8
iter = 14593, queue = 20277, heur = -8.0, depth = 8
iter = 14594, queue = 20278, heur = -8.0, depth = 8
iter = 14595, queue = 20277, heur = -8.0, depth = 8
iter = 14596, queue = 20280, heur = -8.0, depth = 8
iter = 14597, queue = 20279, heur = -8.0, depth = 8
iter = 14598, queue = 20279, heur = -8.0, depth = 8
iter = 14599, queue = 20280, heur = -8.0, depth = 8
iter = 14600, queue = 20282, heur = -8.0, depth = 8
iter = 14601, queue = 20285, heur = -8.0, depth = 8
iter = 14602, queue = 20286, heur = -8.0, depth = 8
iter = 14603, queue = 20289, heur = -8.0, depth = 8
iter = 14604, queue = 20291, heur = -8.0, depth = 8
iter = 14605, queue = 20293, heur = -8.0, depth = 8
iter = 14606, queue = 20294, heur = -8.0, depth = 8
iter = 14607, queue = 20295, heur = -8.0, depth = 8
iter = 14608, queue = 20297, heur = -8.0, depth = 8
iter = 14609, queue = 20296, heur = -8.0, depth = 8
iter = 14610, queue = 20299, heur = -8.0, depth = 8
iter = 14611, queue = 20300, heur = -8.0, depth = 8
iter = 14612, queue = 20300, heur = -8.0, depth = 8
iter = 14613, queue = 20301, heur = -8.0, depth = 8
iter = 14614, queue = 20303, heur = -8.0, depth = 8
iter = 14615, queue = 20306, heur = -8.0, depth = 8
iter = 14616, queue = 20309, heur = -8.0, depth = 9
iter = 14617, queue = 20309, heur = -8.0, depth = 10
iter = 14618, queue = 20312, heur = -8.0, depth = 8
iter = 14619, queue = 20313, heur = -8.0, depth = 8
iter = 14620, queue = 20313, heur = -8.0, depth = 8
iter = 14621, queue = 20314, heur = -8.0, depth = 8
iter = 14622, queue = 20315, heur = -8.0, depth = 8
iter = 14623, queue = 20318, heur = -8.0, depth = 8
iter = 14624, queue = 20321, heur = -8.0, depth = 8
iter = 14625, queue = 20324, heur = -8.0, depth = 8
iter = 14626, queue = 20325, heur = -8.0, depth = 8
iter = 14627, queue = 20327, heur = -8.0, depth = 8
iter = 14628, queue = 20329, heur = -8.0, depth = 8
iter = 14629, queue = 20330, heur = -8.0, depth = 8
iter = 14630, queue = 20331, heur = -8.0, depth = 8
iter = 14631, queue = 20332, heur = -8.0, depth = 8
iter = 14632, queue = 20334, heur = -8.0, depth = 8
iter = 14633, queue = 20335, heur = -8.0, depth = 8
iter = 14634, queue = 20338, heur = -8.0, depth = 8
```

```
iter = 14635, queue = 20341, heur = -8.0, depth = 8
iter = 14636, queue = 20340, heur = -8.0, depth = 8
iter = 14637, queue = 20343, heur = -8.0, depth = 8
iter = 14638, queue = 20344, heur = -8.0, depth = 8
iter = 14639, queue = 20345, heur = -8.0, depth = 8
iter = 14640, queue = 20346, heur = -8.0, depth = 8
iter = 14641, queue = 20349, heur = -8.0, depth = 8
iter = 14642, queue = 20348, heur = -8.0, depth = 8
iter = 14643, queue = 20347, heur = -8.0, depth = 8
iter = 14644, queue = 20348, heur = -8.0, depth = 8
iter = 14645, queue = 20348, heur = -8.0, depth = 8
iter = 14646, queue = 20348, heur = -8.0, depth = 8
iter = 14647, queue = 20347, heur = -8.0, depth = 8
iter = 14648, queue = 20347, heur = -8.0, depth = 10
iter = 14649, queue = 20347, heur = -8.0, depth = 8
iter = 14650, queue = 20349, heur = -8.0, depth = 8
iter = 14651, queue = 20352, heur = -8.0, depth = 8
iter = 14652, queue = 20354, heur = -8.0, depth = 8
iter = 14653, queue = 20355, heur = -8.0, depth = 8
iter = 14654, queue = 20358, heur = -8.0, depth = 8
iter = 14655, queue = 20361, heur = -8.0, depth = 8
iter = 14656, queue = 20363, heur = -8.0, depth = 8
iter = 14657, queue = 20363, heur = -8.0, depth = 8
iter = 14658, queue = 20363, heur = -8.0, depth = 8
iter = 14659, queue = 20365, heur = -8.0, depth = 8
iter = 14660, queue = 20366, heur = -8.0, depth = 8
iter = 14661, queue = 20365, heur = -8.0, depth = 8
iter = 14662, queue = 20366, heur = -8.0, depth = 8
iter = 14663, queue = 20367, heur = -8.0, depth = 8
iter = 14664, queue = 20369, heur = -8.0, depth = 8
iter = 14665, queue = 20372, heur = -8.0, depth = 8
iter = 14666, queue = 20372, heur = -8.0, depth = 8
iter = 14667, queue = 20373, heur = -8.0, depth = 8
iter = 14668, queue = 20374, heur = -8.0, depth = 8
iter = 14669, queue = 20377, heur = -8.0, depth = 8
iter = 14670, queue = 20380, heur = -8.0, depth = 8
iter = 14671, queue = 20381, heur = -8.0, depth = 8
iter = 14672, queue = 20382, heur = -8.0, depth = 8
iter = 14673, queue = 20385, heur = -8.0, depth = 8
iter = 14674, queue = 20386, heur = -8.0, depth = 8
iter = 14675, queue = 20387, heur = -8.0, depth = 8
iter = 14676, queue = 20389, heur = -8.0, depth = 8
iter = 14677, queue = 20390, heur = -8.0, depth = 8
iter = 14678, queue = 20391, heur = -8.0, depth = 8
iter = 14679, queue = 20394, heur = -8.0, depth = 8
iter = 14680, queue = 20393, heur = -8.0, depth = 8
iter = 14681, queue = 20395, heur = -8.0, depth = 8
iter = 14682, queue = 20395, heur = -8.0, depth = 8
iter = 14683, queue = 20396, heur = -8.0, depth = 8
iter = 14684, queue = 20397, heur = -8.0, depth = 8
iter = 14685, queue = 20398, heur = -8.0, depth = 8
iter = 14686, queue = 20399, heur = -8.0, depth = 8
iter = 14687, queue = 20402, heur = -8.0, depth = 8
iter = 14688, queue = 20403, heur = -8.0, depth = 8
iter = 14689, queue = 20402, heur = -8.0, depth = 8
iter = 14690, queue = 20403, heur = -8.0, depth = 8
iter = 14691, queue = 20402, heur = -8.0, depth = 8
iter = 14692, queue = 20403, heur = -8.0, depth = 8
iter = 14693, queue = 20406, heur = -8.0, depth = 8
```

```
iter = 14694, queue = 20407, heur = -8.0, depth = 8
iter = 14695, queue = 20408, heur = -8.0, depth = 8
iter = 14696, queue = 20410, heur = -8.0, depth = 8
iter = 14697, queue = 20409, heur = -8.0, depth = 8
iter = 14698, queue = 20410, heur = -8.0, depth = 8
iter = 14699, queue = 20411, heur = -8.0, depth = 8
iter = 14700, queue = 20414, heur = -8.0, depth = 8
iter = 14701, queue = 20413, heur = -8.0, depth = 8
iter = 14702, queue = 20416, heur = -8.0, depth = 8
iter = 14703, queue = 20417, heur = -8.0, depth = 8
iter = 14704, queue = 20418, heur = -8.0, depth = 8
iter = 14705, queue = 20418, heur = -8.0, depth = 8
iter = 14706, queue = 20421, heur = -8.0, depth = 8
iter = 14707, queue = 20422, heur = -8.0, depth = 8
iter = 14708, queue = 20424, heur = -8.0, depth = 8
iter = 14709, queue = 20426, heur = -8.0, depth = 8
iter = 14710, queue = 20428, heur = -8.0, depth = 8
iter = 14711, queue = 20429, heur = -8.0, depth = 8
iter = 14712, queue = 20431, heur = -8.0, depth = 8
iter = 14713, queue = 20433, heur = -8.0, depth = 8
iter = 14714, queue = 20434, heur = -8.0, depth = 8
iter = 14715, queue = 20435, heur = -8.0, depth = 8
iter = 14716, queue = 20437, heur = -8.0, depth = 8
iter = 14717, queue = 20439, heur = -8.0, depth = 8
iter = 14718, queue = 20440, heur = -8.0, depth = 8
iter = 14719, queue = 20443, heur = -8.0, depth = 8
iter = 14720, queue = 20444, heur = -8.0, depth = 8
iter = 14721, queue = 20443, heur = -8.0, depth = 8
iter = 14722, queue = 20444, heur = -8.0, depth = 8
iter = 14723, queue = 20447, heur = -8.0, depth = 8
iter = 14724, queue = 20448, heur = -8.0, depth = 8
iter = 14725, queue = 20451, heur = -8.0, depth = 8
iter = 14726, queue = 20452, heur = -8.0, depth = 8
iter = 14727, queue = 20455, heur = -8.0, depth = 8
iter = 14728, queue = 20457, heur = -8.0, depth = 8
iter = 14729, queue = 20457, heur = -8.0, depth = 8
iter = 14730, queue = 20458, heur = -8.0, depth = 8
iter = 14731, queue = 20460, heur = -8.0, depth = 8
iter = 14732, queue = 20461, heur = -8.0, depth = 8
iter = 14733, queue = 20462, heur = -8.0, depth = 8
iter = 14734, queue = 20465, heur = -8.0, depth = 8
iter = 14735, queue = 20468, heur = -8.0, depth = 8
iter = 14736, queue = 20469, heur = -8.0, depth = 8
iter = 14737, queue = 20470, heur = -8.0, depth = 8
iter = 14738, queue = 20473, heur = -8.0, depth = 8
iter = 14739, queue = 20474, heur = -8.0, depth = 8
iter = 14740, queue = 20473, heur = -8.0, depth = 8
iter = 14741, queue = 20472, heur = -8.0, depth = 8
iter = 14742, queue = 20474, heur = -8.0, depth = 8
iter = 14743, queue = 20476, heur = -8.0, depth = 8
iter = 14744, queue = 20477, heur = -8.0, depth = 8
iter = 14745, queue = 20478, heur = -8.0, depth = 8
iter = 14746, queue = 20479, heur = -8.0, depth = 8
iter = 14747, queue = 20482, heur = -8.0, depth = 8
iter = 14748, queue = 20481, heur = -8.0, depth = 8
iter = 14749, queue = 20482, heur = -8.0, depth = 8
iter = 14750, queue = 20483, heur = -8.0, depth = 8
iter = 14751, queue = 20484, heur = -8.0, depth = 8
iter = 14752, queue = 20485, heur = -8.0, depth = 8
```

```
iter = 14753, queue = 20486, heur = -8.0, depth = 8
iter = 14754, queue = 20488, heur = -8.0, depth = 8
iter = 14755, queue = 20488, heur = -8.0, depth = 8
iter = 14756, queue = 20489, heur = -8.0, depth = 8
iter = 14757, queue = 20490, heur = -8.0, depth = 8
iter = 14758, queue = 20491, heur = -8.0, depth = 8
iter = 14759, queue = 20493, heur = -8.0, depth = 8
iter = 14760, queue = 20496, heur = -8.0, depth = 8
iter = 14761, queue = 20495, heur = -8.0, depth = 8
iter = 14762, queue = 20494, heur = -8.0, depth = 8
iter = 14763, queue = 20495, heur = -8.0, depth = 8
iter = 14764, queue = 20498, heur = -8.0, depth = 8
iter = 14765, queue = 20499, heur = -8.0, depth = 8
iter = 14766, queue = 20501, heur = -8.0, depth = 8
iter = 14767, queue = 20502, heur = -8.0, depth = 8
iter = 14768, queue = 20501, heur = -8.0, depth = 8
iter = 14769, queue = 20502, heur = -8.0, depth = 8
iter = 14770, queue = 20501, heur = -8.0, depth = 9
iter = 14771, queue = 20502, heur = -8.0, depth = 8
iter = 14772, queue = 20503, heur = -8.0, depth = 8
iter = 14773, queue = 20504, heur = -8.0, depth = 8
iter = 14774, queue = 20507, heur = -8.0, depth = 8
iter = 14775, queue = 20507, heur = -8.0, depth = 8
iter = 14776, queue = 20510, heur = -8.0, depth = 8
iter = 14777, queue = 20511, heur = -8.0, depth = 8
iter = 14778, queue = 20514, heur = -8.0, depth = 8
iter = 14779, queue = 20516, heur = -8.0, depth = 8
iter = 14780, queue = 20519, heur = -8.0, depth = 8
iter = 14781, queue = 20520, heur = -8.0, depth = 8
iter = 14782, queue = 20521, heur = -8.0, depth = 8
iter = 14783, queue = 20524, heur = -8.0, depth = 8
iter = 14784, queue = 20523, heur = -8.0, depth = 8
iter = 14785, queue = 20526, heur = -8.0, depth = 8
iter = 14786, queue = 20527, heur = -8.0, depth = 9
iter = 14787, queue = 20529, heur = -8.0, depth = 8
iter = 14788, queue = 20528, heur = -8.0, depth = 8
iter = 14789, queue = 20529, heur = -8.0, depth = 8
iter = 14790, queue = 20530, heur = -8.0, depth = 8
iter = 14791, queue = 20531, heur = -8.0, depth = 8
iter = 14792, queue = 20532, heur = -8.0, depth = 8
iter = 14793, queue = 20531, heur = -8.0, depth = 8
iter = 14794, queue = 20534, heur = -8.0, depth = 8
iter = 14795, queue = 20533, heur = -8.0, depth = 8
iter = 14796, queue = 20534, heur = -8.0, depth = 8
iter = 14797, queue = 20534, heur = -8.0, depth = 8
iter = 14798, queue = 20535, heur = -8.0, depth = 8
iter = 14799, queue = 20537, heur = -8.0, depth = 8
iter = 14800, queue = 20540, heur = -8.0, depth = 8
iter = 14801, queue = 20542, heur = -8.0, depth = 8
iter = 14802, queue = 20545, heur = -8.0, depth = 8
iter = 14803, queue = 20546, heur = -8.0, depth = 8
iter = 14804, queue = 20547, heur = -8.0, depth = 8
iter = 14805, queue = 20548, heur = -8.0, depth = 8
iter = 14806, queue = 20549, heur = -8.0, depth = 8
iter = 14807, queue = 20550, heur = -8.0, depth = 8
iter = 14808, queue = 20551, heur = -8.0, depth = 8
iter = 14809, queue = 20551, heur = -8.0, depth = 8
iter = 14810, queue = 20553, heur = -8.0, depth = 8
iter = 14811, queue = 20554, heur = -8.0, depth = 8
```

```
iter = 14812, queue = 20553, heur = -8.0, depth = 8
iter = 14813, queue = 20554, heur = -8.0, depth = 8
iter = 14814, queue = 20557, heur = -8.0, depth = 8
iter = 14815, queue = 20557, heur = -8.0, depth = 8
iter = 14816, queue = 20558, heur = -8.0, depth = 8
iter = 14817, queue = 20561, heur = -8.0, depth = 8
iter = 14818, queue = 20562, heur = -8.0, depth = 8
iter = 14819, queue = 20563, heur = -8.0, depth = 8
iter = 14820, queue = 20566, heur = -8.0, depth = 8
iter = 14821, queue = 20569, heur = -8.0, depth = 8
iter = 14822, queue = 20571, heur = -8.0, depth = 8
iter = 14823, queue = 20572, heur = -8.0, depth = 8
iter = 14824, queue = 20573, heur = -8.0, depth = 8
iter = 14825, queue = 20575, heur = -8.0, depth = 8
iter = 14826, queue = 20576, heur = -8.0, depth = 9
iter = 14827, queue = 20577, heur = -8.0, depth = 8
iter = 14828, queue = 20577, heur = -8.0, depth = 8
iter = 14829, queue = 20578, heur = -8.0, depth = 8
iter = 14830, queue = 20578, heur = -8.0, depth = 8
iter = 14831, queue = 20579, heur = -8.0, depth = 8
iter = 14832, queue = 20579, heur = -8.0, depth = 8
iter = 14833, queue = 20581, heur = -8.0, depth = 8
iter = 14834, queue = 20582, heur = -8.0, depth = 8
iter = 14835, queue = 20584, heur = -8.0, depth = 8
iter = 14836, queue = 20583, heur = -8.0, depth = 9
iter = 14837, queue = 20585, heur = -8.0, depth = 8
iter = 14838, queue = 20586, heur = -8.0, depth = 8
iter = 14839, queue = 20588, heur = -8.0, depth = 8
iter = 14840, queue = 20589, heur = -8.0, depth = 8
iter = 14841, queue = 20592, heur = -8.0, depth = 8
iter = 14842, queue = 20591, heur = -8.0, depth = 8
iter = 14843, queue = 20592, heur = -8.0, depth = 8
iter = 14844, queue = 20593, heur = -8.0, depth = 8
iter = 14845, queue = 20593, heur = -8.0, depth = 8
iter = 14846, queue = 20595, heur = -8.0, depth = 9
iter = 14847, queue = 20596, heur = -8.0, depth = 8
iter = 14848, queue = 20599, heur = -8.0, depth = 8
iter = 14849, queue = 20602, heur = -8.0, depth = 8
iter = 14850, queue = 20603, heur = -8.0, depth = 8
iter = 14851, queue = 20606, heur = -8.0, depth = 8
iter = 14852, queue = 20609, heur = -8.0, depth = 8
iter = 14853, queue = 20612, heur = -8.0, depth = 8
iter = 14854, queue = 20613, heur = -8.0, depth = 8
iter = 14855, queue = 20613, heur = -8.0, depth = 8
iter = 14856, queue = 20616, heur = -8.0, depth = 8
iter = 14857, queue = 20615, heur = -8.0, depth = 8
iter = 14858, queue = 20614, heur = -8.0, depth = 8
iter = 14859, queue = 20614, heur = -8.0, depth = 8
iter = 14860, queue = 20614, heur = -8.0, depth = 8
iter = 14861, queue = 20617, heur = -8.0, depth = 8
iter = 14862, queue = 20618, heur = -8.0, depth = 8
iter = 14863, queue = 20619, heur = -8.0, depth = 8
iter = 14864, queue = 20620, heur = -8.0, depth = 8
iter = 14865, queue = 20619, heur = -8.0, depth = 8
iter = 14866, queue = 20622, heur = -8.0, depth = 8
iter = 14867, queue = 20622, heur = -8.0, depth = 8
iter = 14868, queue = 20621, heur = -8.0, depth = 8
iter = 14869, queue = 20622, heur = -8.0, depth = 8
iter = 14870, queue = 20623, heur = -8.0, depth = 8
```

```
iter = 14871, queue = 20626, heur = -8.0, depth = 8
iter = 14872, queue = 20626, heur = -8.0, depth = 8
iter = 14873, queue = 20629, heur = -8.0, depth = 8
iter = 14874, queue = 20630, heur = -8.0, depth = 8
iter = 14875, queue = 20631, heur = -8.0, depth = 8
iter = 14876, queue = 20632, heur = -8.0, depth = 8
iter = 14877, queue = 20633, heur = -8.0, depth = 8
iter = 14878, queue = 20634, heur = -8.0, depth = 8
iter = 14879, queue = 20635, heur = -8.0, depth = 8
iter = 14880, queue = 20634, heur = -8.0, depth = 8
iter = 14881, queue = 20635, heur = -8.0, depth = 8
iter = 14882, queue = 20634, heur = -8.0, depth = 8
iter = 14883, queue = 20636, heur = -8.0, depth = 8
iter = 14884, queue = 20637, heur = -8.0, depth = 8
iter = 14885, queue = 20638, heur = -8.0, depth = 8
iter = 14886, queue = 20639, heur = -8.0, depth = 8
iter = 14887, queue = 20640, heur = -8.0, depth = 8
iter = 14888, queue = 20639, heur = -8.0, depth = 8
iter = 14889, queue = 20640, heur = -8.0, depth = 8
iter = 14890, queue = 20640, heur = -8.0, depth = 8
iter = 14891, queue = 20641, heur = -8.0, depth = 8
iter = 14892, queue = 20642, heur = -8.0, depth = 8
iter = 14893, queue = 20643, heur = -8.0, depth = 8
iter = 14894, queue = 20644, heur = -8.0, depth = 8
iter = 14895, queue = 20645, heur = -8.0, depth = 8
iter = 14896, queue = 20646, heur = -8.0, depth = 8
iter = 14897, queue = 20647, heur = -8.0, depth = 8
iter = 14898, queue = 20648, heur = -8.0, depth = 8
iter = 14899, queue = 20647, heur = -8.0, depth = 9
iter = 14900, queue = 20649, heur = -8.0, depth = 8
iter = 14901, queue = 20650, heur = -8.0, depth = 8
iter = 14902, queue = 20650, heur = -8.0, depth = 8
iter = 14903, queue = 20650, heur = -8.0, depth = 8
iter = 14904, queue = 20650, heur = -8.0, depth = 8
iter = 14905, queue = 20651, heur = -8.0, depth = 8
iter = 14906, queue = 20652, heur = -8.0, depth = 8
iter = 14907, queue = 20655, heur = -8.0, depth = 8
iter = 14908, queue = 20656, heur = -8.0, depth = 8
iter = 14909, queue = 20657, heur = -8.0, depth = 8
iter = 14910, queue = 20658, heur = -8.0, depth = 8
iter = 14911, queue = 20660, heur = -8.0, depth = 8
iter = 14912, queue = 20660, heur = -8.0, depth = 8
iter = 14913, queue = 20662, heur = -8.0, depth = 8
iter = 14914, queue = 20663, heur = -8.0, depth = 8
iter = 14915, queue = 20665, heur = -8.0, depth = 8
iter = 14916, queue = 20666, heur = -8.0, depth = 8
iter = 14917, queue = 20665, heur = -8.0, depth = 8
iter = 14918, queue = 20665, heur = -8.0, depth = 8
iter = 14919, queue = 20666, heur = -8.0, depth = 8
iter = 14920, queue = 20667, heur = -8.0, depth = 8
iter = 14921, queue = 20668, heur = -8.0, depth = 8
iter = 14922, queue = 20670, heur = -8.0, depth = 8
iter = 14923, queue = 20671, heur = -8.0, depth = 8
iter = 14924, queue = 20673, heur = -8.0, depth = 8
iter = 14925, queue = 20673, heur = -8.0, depth = 8
iter = 14926, queue = 20676, heur = -8.0, depth = 8
iter = 14927, queue = 20679, heur = -8.0, depth = 8
iter = 14928, queue = 20682, heur = -8.0, depth = 8
iter = 14929, queue = 20684, heur = -8.0, depth = 8
```

```
iter = 14930, queue = 20685, heur = -8.0, depth = 8
iter = 14931, queue = 20686, heur = -8.0, depth = 8
iter = 14932, queue = 20689, heur = -8.0, depth = 8
iter = 14933, queue = 20692, heur = -8.0, depth = 8
iter = 14934, queue = 20693, heur = -8.0, depth = 8
iter = 14935, queue = 20696, heur = -8.0, depth = 8
iter = 14936, queue = 20697, heur = -8.0, depth = 8
iter = 14937, queue = 20698, heur = -8.0, depth = 8
iter = 14938, queue = 20700, heur = -8.0, depth = 9
iter = 14939, queue = 20700, heur = -8.0, depth = 8
iter = 14940, queue = 20701, heur = -8.0, depth = 8
iter = 14941, queue = 20702, heur = -8.0, depth = 8
iter = 14942, queue = 20704, heur = -8.0, depth = 8
iter = 14943, queue = 20707, heur = -8.0, depth = 8
iter = 14944, queue = 20708, heur = -8.0, depth = 8
iter = 14945, queue = 20707, heur = -8.0, depth = 8
iter = 14946, queue = 20710, heur = -8.0, depth = 8
iter = 14947, queue = 20711, heur = -8.0, depth = 8
iter = 14948, queue = 20714, heur = -8.0, depth = 8
iter = 14949, queue = 20714, heur = -8.0, depth = 8
iter = 14950, queue = 20715, heur = -8.0, depth = 8
iter = 14951, queue = 20716, heur = -8.0, depth = 8
iter = 14952, queue = 20719, heur = -8.0, depth = 8
iter = 14953, queue = 20720, heur = -8.0, depth = 8
iter = 14954, queue = 20723, heur = -8.0, depth = 8
iter = 14955, queue = 20725, heur = -8.0, depth = 8
iter = 14956, queue = 20726, heur = -8.0, depth = 8
iter = 14957, queue = 20727, heur = -8.0, depth = 8
iter = 14958, queue = 20728, heur = -8.0, depth = 8
iter = 14959, queue = 20730, heur = -8.0, depth = 8
iter = 14960, queue = 20729, heur = -8.0, depth = 9
iter = 14961, queue = 20729, heur = -8.0, depth = 8
iter = 14962, queue = 20732, heur = -8.0, depth = 8
iter = 14963, queue = 20735, heur = -8.0, depth = 8
iter = 14964, queue = 20736, heur = -8.0, depth = 8
iter = 14965, queue = 20739, heur = -8.0, depth = 8
iter = 14966, queue = 20740, heur = -8.0, depth = 8
iter = 14967, queue = 20742, heur = -8.0, depth = 8
iter = 14968, queue = 20745, heur = -8.0, depth = 8
iter = 14969, queue = 20748, heur = -8.0, depth = 8
iter = 14970, queue = 20751, heur = -8.0, depth = 8
iter = 14971, queue = 20752, heur = -8.0, depth = 8
iter = 14972, queue = 20753, heur = -8.0, depth = 8
iter = 14973, queue = 20754, heur = -8.0, depth = 8
iter = 14974, queue = 20755, heur = -8.0, depth = 8
iter = 14975, queue = 20758, heur = -8.0, depth = 8
iter = 14976, queue = 20757, heur = -8.0, depth = 8
iter = 14977, queue = 20759, heur = -8.0, depth = 8
iter = 14978, queue = 20760, heur = -8.0, depth = 8
iter = 14979, queue = 20761, heur = -8.0, depth = 8
iter = 14980, queue = 20764, heur = -8.0, depth = 8
iter = 14981, queue = 20766, heur = -8.0, depth = 8
iter = 14982, queue = 20767, heur = -8.0, depth = 8
iter = 14983, queue = 20768, heur = -8.0, depth = 8
iter = 14984, queue = 20770, heur = -8.0, depth = 8
iter = 14985, queue = 20770, heur = -8.0, depth = 8
iter = 14986, queue = 20773, heur = -8.0, depth = 8
iter = 14987, queue = 20774, heur = -8.0, depth = 8
iter = 14988, queue = 20776, heur = -8.0, depth = 8
```

```
iter = 14989, queue = 20777, heur = -8.0, depth = 8
iter = 14990, queue = 20778, heur = -8.0, depth = 8
iter = 14991, queue = 20781, heur = -8.0, depth = 8
iter = 14992, queue = 20782, heur = -8.0, depth = 8
iter = 14993, queue = 20785, heur = -8.0, depth = 8
iter = 14994, queue = 20787, heur = -8.0, depth = 8
iter = 14995, queue = 20789, heur = -8.0, depth = 8
iter = 14996, queue = 20788, heur = -8.0, depth = 8
iter = 14997, queue = 20788, heur = -8.0, depth = 8
iter = 14998, queue = 20789, heur = -8.0, depth = 8
iter = 14999, queue = 20790, heur = -8.0, depth = 8
iter = 15000, queue = 20791, heur = -8.0, depth = 8
iter = 15001, queue = 20792, heur = -8.0, depth = 8
iter = 15002, queue = 20793, heur = -8.0, depth = 8
iter = 15003, queue = 20793, heur = -8.0, depth = 8
iter = 15004, queue = 20793, heur = -8.0, depth = 8
iter = 15005, queue = 20792, heur = -8.0, depth = 8
iter = 15006, queue = 20795, heur = -8.0, depth = 8
iter = 15007, queue = 20798, heur = -8.0, depth = 8
iter = 15008, queue = 20801, heur = -8.0, depth = 8
iter = 15009, queue = 20803, heur = -8.0, depth = 8
iter = 15010, queue = 20803, heur = -8.0, depth = 8
iter = 15011, queue = 20804, heur = -8.0, depth = 8
iter = 15012, queue = 20803, heur = -8.0, depth = 8
iter = 15013, queue = 20802, heur = -8.0, depth = 8
iter = 15014, queue = 20803, heur = -8.0, depth = 8
iter = 15015, queue = 20804, heur = -8.0, depth = 8
iter = 15016, queue = 20807, heur = -8.0, depth = 8
iter = 15017, queue = 20809, heur = -8.0, depth = 8
iter = 15018, queue = 20809, heur = -8.0, depth = 8
iter = 15019, queue = 20812, heur = -8.0, depth = 8
iter = 15020, queue = 20815, heur = -8.0, depth = 8
iter = 15021, queue = 20816, heur = -8.0, depth = 8
iter = 15022, queue = 20817, heur = -8.0, depth = 8
iter = 15023, queue = 20818, heur = -8.0, depth = 8
iter = 15024, queue = 20821, heur = -8.0, depth = 8
iter = 15025, queue = 20823, heur = -8.0, depth = 8
iter = 15026, queue = 20823, heur = -8.0, depth = 8
iter = 15027, queue = 20824, heur = -8.0, depth = 8
iter = 15028, queue = 20827, heur = -8.0, depth = 8
iter = 15029, queue = 20829, heur = -8.0, depth = 8
iter = 15030, queue = 20829, heur = -8.0, depth = 8
iter = 15031, queue = 20829, heur = -8.0, depth = 8
iter = 15032, queue = 20830, heur = -8.0, depth = 8
iter = 15033, queue = 20832, heur = -8.0, depth = 8
iter = 15034, queue = 20835, heur = -8.0, depth = 8
iter = 15035, queue = 20838, heur = -8.0, depth = 8
iter = 15036, queue = 20839, heur = -8.0, depth = 8
iter = 15037, queue = 20840, heur = -8.0, depth = 8
iter = 15038, queue = 20843, heur = -8.0, depth = 8
iter = 15039, queue = 20844, heur = -8.0, depth = 8
iter = 15040, queue = 20845, heur = -8.0, depth = 8
iter = 15041, queue = 20848, heur = -8.0, depth = 8
iter = 15042, queue = 20849, heur = -8.0, depth = 8
iter = 15043, queue = 20850, heur = -8.0, depth = 8
iter = 15044, queue = 20853, heur = -8.0, depth = 8
iter = 15045, queue = 20854, heur = -8.0, depth = 8
iter = 15046, queue = 20855, heur = -8.0, depth = 8
iter = 15047, queue = 20856, heur = -8.0, depth = 8
```

```
iter = 15048, queue = 20857, heur = -8.0, depth = 8
iter = 15049, queue = 20856, heur = -8.0, depth = 8
iter = 15050, queue = 20857, heur = -8.0, depth = 8
iter = 15051, queue = 20860, heur = -8.0, depth = 8
iter = 15052, queue = 20859, heur = -8.0, depth = 8
iter = 15053, queue = 20860, heur = -8.0, depth = 8
iter = 15054, queue = 20861, heur = -8.0, depth = 8
iter = 15055, queue = 20862, heur = -8.0, depth = 8
iter = 15056, queue = 20862, heur = -8.0, depth = 8
iter = 15057, queue = 20861, heur = -8.0, depth = 8
iter = 15058, queue = 20862, heur = -8.0, depth = 8
iter = 15059, queue = 20863, heur = -8.0, depth = 8
iter = 15060, queue = 20863, heur = -8.0, depth = 8
iter = 15061, queue = 20864, heur = -8.0, depth = 8
iter = 15062, queue = 20866, heur = -8.0, depth = 8
iter = 15063, queue = 20868, heur = -8.0, depth = 8
iter = 15064, queue = 20870, heur = -8.0, depth = 8
iter = 15065, queue = 20873, heur = -8.0, depth = 8
iter = 15066, queue = 20873, heur = -8.0, depth = 8
iter = 15067, queue = 20874, heur = -8.0, depth = 8
iter = 15068, queue = 20875, heur = -8.0, depth = 10
iter = 15069, queue = 20876, heur = -8.0, depth = 8
iter = 15070, queue = 20877, heur = -8.0, depth = 8
iter = 15071, queue = 20877, heur = -8.0, depth = 8
iter = 15072, queue = 20878, heur = -8.0, depth = 8
iter = 15073, queue = 20879, heur = -8.0, depth = 8
iter = 15074, queue = 20878, heur = -8.0, depth = 8
iter = 15075, queue = 20881, heur = -8.0, depth = 9
iter = 15076, queue = 20882, heur = -8.0, depth = 8
iter = 15077, queue = 20883, heur = -8.0, depth = 8
iter = 15078, queue = 20884, heur = -8.0, depth = 8
iter = 15079, queue = 20887, heur = -8.0, depth = 8
iter = 15080, queue = 20887, heur = -8.0, depth = 8
iter = 15081, queue = 20890, heur = -8.0, depth = 8
iter = 15082, queue = 20891, heur = -8.0, depth = 8
iter = 15083, queue = 20891, heur = -8.0, depth = 8
iter = 15084, queue = 20891, heur = -8.0, depth = 8
iter = 15085, queue = 20891, heur = -8.0, depth = 8
iter = 15086, queue = 20892, heur = -8.0, depth = 8
iter = 15087, queue = 20893, heur = -8.0, depth = 8
iter = 15088, queue = 20894, heur = -8.0, depth = 8
iter = 15089, queue = 20895, heur = -8.0, depth = 8
iter = 15090, queue = 20896, heur = -8.0, depth = 8
iter = 15091, queue = 20896, heur = -8.0, depth = 8
iter = 15092, queue = 20896, heur = -8.0, depth = 8
iter = 15093, queue = 20899, heur = -8.0, depth = 8
iter = 15094, queue = 20900, heur = -8.0, depth = 8
iter = 15095, queue = 20900, heur = -8.0, depth = 8
iter = 15096, queue = 20901, heur = -8.0, depth = 8
iter = 15097, queue = 20901, heur = -8.0, depth = 8
iter = 15098, queue = 20903, heur = -8.0, depth = 8
iter = 15099, queue = 20904, heur = -8.0, depth = 8
iter = 15100, queue = 20905, heur = -8.0, depth = 8
iter = 15101, queue = 20907, heur = -8.0, depth = 8
iter = 15102, queue = 20908, heur = -8.0, depth = 8
iter = 15103, queue = 20909, heur = -8.0, depth = 8
iter = 15104, queue = 20910, heur = -8.0, depth = 8
iter = 15105, queue = 20911, heur = -8.0, depth = 8
iter = 15106, queue = 20912, heur = -8.0, depth = 8
```

```
iter = 15107, queue = 20913, heur = -8.0, depth = 8
iter = 15108, queue = 20914, heur = -8.0, depth = 8
iter = 15109, queue = 20915, heur = -8.0, depth = 8
iter = 15110, queue = 20916, heur = -8.0, depth = 8
iter = 15111, queue = 20917, heur = -8.0, depth = 8
iter = 15112, queue = 20918, heur = -8.0, depth = 8
iter = 15113, queue = 20919, heur = -8.0, depth = 9
iter = 15114, queue = 20920, heur = -8.0, depth = 8
iter = 15115, queue = 20923, heur = -8.0, depth = 8
iter = 15116, queue = 20924, heur = -8.0, depth = 8
iter = 15117, queue = 20926, heur = -8.0, depth = 8
iter = 15118, queue = 20927, heur = -8.0, depth = 8
iter = 15119, queue = 20928, heur = -8.0, depth = 9
iter = 15120, queue = 20929, heur = -8.0, depth = 8
iter = 15121, queue = 20932, heur = -8.0, depth = 8
iter = 15122, queue = 20934, heur = -8.0, depth = 8
iter = 15123, queue = 20933, heur = -8.0, depth = 8
iter = 15124, queue = 20933, heur = -8.0, depth = 8
iter = 15125, queue = 20934, heur = -8.0, depth = 8
iter = 15126, queue = 20937, heur = -8.0, depth = 8
iter = 15127, queue = 20940, heur = -8.0, depth = 8
iter = 15128, queue = 20941, heur = -8.0, depth = 8
iter = 15129, queue = 20944, heur = -8.0, depth = 8
iter = 15130, queue = 20947, heur = -8.0, depth = 8
iter = 15131, queue = 20950, heur = -8.0, depth = 8
iter = 15132, queue = 20951, heur = -8.0, depth = 8
iter = 15133, queue = 20952, heur = -8.0, depth = 8
iter = 15134, queue = 20953, heur = -8.0, depth = 8
iter = 15135, queue = 20953, heur = -8.0, depth = 8
iter = 15136, queue = 20954, heur = -8.0, depth = 8
iter = 15137, queue = 20957, heur = -8.0, depth = 8
iter = 15138, queue = 20958, heur = -8.0, depth = 8
iter = 15139, queue = 20959, heur = -8.0, depth = 8
iter = 15140, queue = 20960, heur = -8.0, depth = 8
iter = 15141, queue = 20959, heur = -8.0, depth = 8
iter = 15142, queue = 20960, heur = -8.0, depth = 8
iter = 15143, queue = 20961, heur = -8.0, depth = 8
iter = 15144, queue = 20964, heur = -8.0, depth = 8
iter = 15145, queue = 20964, heur = -8.0, depth = 8
iter = 15146, queue = 20965, heur = -8.0, depth = 8
iter = 15147, queue = 20966, heur = -8.0, depth = 8
iter = 15148, queue = 20969, heur = -8.0, depth = 8
iter = 15149, queue = 20968, heur = -8.0, depth = 8
iter = 15150, queue = 20970, heur = -8.0, depth = 8
iter = 15151, queue = 20971, heur = -8.0, depth = 8
iter = 15152, queue = 20970, heur = -8.0, depth = 10
iter = 15153, queue = 20972, heur = -8.0, depth = 8
iter = 15154, queue = 20974, heur = -8.0, depth = 8
iter = 15155, queue = 20977, heur = -8.0, depth = 8
iter = 15156, queue = 20976, heur = -8.0, depth = 8
iter = 15157, queue = 20977, heur = -8.0, depth = 8
iter = 15158, queue = 20980, heur = -8.0, depth = 8
iter = 15159, queue = 20983, heur = -8.0, depth = 8
iter = 15160, queue = 20986, heur = -8.0, depth = 8
iter = 15161, queue = 20988, heur = -8.0, depth = 8
iter = 15162, queue = 20990, heur = -8.0, depth = 8
iter = 15163, queue = 20991, heur = -8.0, depth = 8
iter = 15164, queue = 20993, heur = -8.0, depth = 8
iter = 15165, queue = 20996, heur = -8.0, depth = 8
```

```
iter = 15166, queue = 20997, heur = -8.0, depth = 8
iter = 15167, queue = 21000, heur = -8.0, depth = 8
iter = 15168, queue = 21001, heur = -8.0, depth = 8
iter = 15169, queue = 21002, heur = -8.0, depth = 8
iter = 15170, queue = 21005, heur = -8.0, depth = 8
iter = 15171, queue = 21004, heur = -8.0, depth = 8
iter = 15172, queue = 21007, heur = -8.0, depth = 8
iter = 15173, queue = 21009, heur = -8.0, depth = 8
iter = 15174, queue = 21012, heur = -8.0, depth = 8
iter = 15175, queue = 21011, heur = -8.0, depth = 8
iter = 15176, queue = 21013, heur = -8.0, depth = 8
iter = 15177, queue = 21014, heur = -8.0, depth = 8
iter = 15178, queue = 21015, heur = -8.0, depth = 8
iter = 15179, queue = 21014, heur = -8.0, depth = 8
iter = 15180, queue = 21015, heur = -8.0, depth = 8
iter = 15181, queue = 21015, heur = -8.0, depth = 8
iter = 15182, queue = 21018, heur = -8.0, depth = 10
iter = 15183, queue = 21019, heur = -8.0, depth = 8
iter = 15184, queue = 21020, heur = -8.0, depth = 8
iter = 15185, queue = 21020, heur = -8.0, depth = 8
iter = 15186, queue = 21021, heur = -8.0, depth = 8
iter = 15187, queue = 21022, heur = -8.0, depth = 8
iter = 15188, queue = 21025, heur = -8.0, depth = 9
iter = 15189, queue = 21027, heur = -8.0, depth = 8
iter = 15190, queue = 21029, heur = -8.0, depth = 8
iter = 15191, queue = 21029, heur = -8.0, depth = 8
iter = 15192, queue = 21030, heur = -8.0, depth = 9
iter = 15193, queue = 21033, heur = -8.0, depth = 8
iter = 15194, queue = 21036, heur = -8.0, depth = 8
iter = 15195, queue = 21039, heur = -8.0, depth = 8
iter = 15196, queue = 21039, heur = -8.0, depth = 8
iter = 15197, queue = 21040, heur = -8.0, depth = 8
iter = 15198, queue = 21041, heur = -8.0, depth = 8
iter = 15199, queue = 21044, heur = -8.0, depth = 8
iter = 15200, queue = 21045, heur = -8.0, depth = 8
iter = 15201, queue = 21046, heur = -8.0, depth = 8
iter = 15202, queue = 21047, heur = -8.0, depth = 8
iter = 15203, queue = 21050, heur = -8.0, depth = 8
iter = 15204, queue = 21051, heur = -8.0, depth = 8
iter = 15205, queue = 21054, heur = -8.0, depth = 8
iter = 15206, queue = 21055, heur = -8.0, depth = 8
iter = 15207, queue = 21058, heur = -8.0, depth = 8
iter = 15208, queue = 21057, heur = -8.0, depth = 8
iter = 15209, queue = 21060, heur = -8.0, depth = 8
iter = 15210, queue = 21061, heur = -8.0, depth = 8
iter = 15211, queue = 21061, heur = -8.0, depth = 8
iter = 15212, queue = 21062, heur = -8.0, depth = 8
iter = 15213, queue = 21061, heur = -8.0, depth = 8
iter = 15214, queue = 21064, heur = -8.0, depth = 8
iter = 15215, queue = 21064, heur = -8.0, depth = 8
iter = 15216, queue = 21067, heur = -8.0, depth = 8
iter = 15217, queue = 21068, heur = -8.0, depth = 8
iter = 15218, queue = 21067, heur = -8.0, depth = 8
iter = 15219, queue = 21070, heur = -8.0, depth = 8
iter = 15220, queue = 21073, heur = -8.0, depth = 8
iter = 15221, queue = 21072, heur = -8.0, depth = 8
iter = 15222, queue = 21075, heur = -8.0, depth = 8
iter = 15223, queue = 21078, heur = -8.0, depth = 8
iter = 15224, queue = 21081, heur = -8.0, depth = 8
```

```
iter = 15225, queue = 21082, heur = -8.0, depth = 8
iter = 15226, queue = 21085, heur = -8.0, depth = 11
iter = 15227, queue = 21087, heur = -8.0, depth = 8
iter = 15228, queue = 21088, heur = -8.0, depth = 8
iter = 15229, queue = 21091, heur = -8.0, depth = 11
iter = 15230, queue = 21094, heur = -8.0, depth = 8
iter = 15231, queue = 21093, heur = -8.0, depth = 8
iter = 15232, queue = 21094, heur = -8.0, depth = 8
iter = 15233, queue = 21095, heur = -8.0, depth = 8
iter = 15234, queue = 21096, heur = -8.0, depth = 11
iter = 15235, queue = 21099, heur = -8.0, depth = 8
iter = 15236, queue = 21100, heur = -8.0, depth = 8
iter = 15237, queue = 21102, heur = -8.0, depth = 8
iter = 15238, queue = 21101, heur = -8.0, depth = 8
iter = 15239, queue = 21102, heur = -8.0, depth = 8
iter = 15240, queue = 21104, heur = -8.0, depth = 8
iter = 15241, queue = 21104, heur = -8.0, depth = 11
iter = 15242, queue = 21107, heur = -8.0, depth = 8
iter = 15243, queue = 21108, heur = -8.0, depth = 8
iter = 15244, queue = 21109, heur = -8.0, depth = 8
iter = 15245, queue = 21110, heur = -8.0, depth = 8
iter = 15246, queue = 21111, heur = -8.0, depth = 8
iter = 15247, queue = 21112, heur = -8.0, depth = 8
iter = 15248, queue = 21115, heur = -8.0, depth = 8
iter = 15249, queue = 21115, heur = -8.0, depth = 8
iter = 15250, queue = 21115, heur = -8.0, depth = 8
iter = 15251, queue = 21118, heur = -8.0, depth = 8
iter = 15252, queue = 21121, heur = -8.0, depth = 8
iter = 15253, queue = 21124, heur = -8.0, depth = 8
iter = 15254, queue = 21127, heur = -8.0, depth = 8
iter = 15255, queue = 21129, heur = -8.0, depth = 8
iter = 15256, queue = 21132, heur = -8.0, depth = 8
iter = 15257, queue = 21135, heur = -8.0, depth = 8
iter = 15258, queue = 21136, heur = -8.0, depth = 8
iter = 15259, queue = 21137, heur = -8.0, depth = 8
iter = 15260, queue = 21139, heur = -8.0, depth = 8
iter = 15261, queue = 21140, heur = -8.0, depth = 9
iter = 15262, queue = 21141, heur = -8.0, depth = 8
iter = 15263, queue = 21142, heur = -8.0, depth = 8
iter = 15264, queue = 21141, heur = -8.0, depth = 8
iter = 15265, queue = 21142, heur = -8.0, depth = 9
iter = 15266, queue = 21144, heur = -8.0, depth = 8
iter = 15267, queue = 21144, heur = -8.0, depth = 8
iter = 15268, queue = 21147, heur = -8.0, depth = 9
iter = 15269, queue = 21147, heur = -8.0, depth = 8
iter = 15270, queue = 21148, heur = -8.0, depth = 8
iter = 15271, queue = 21149, heur = -8.0, depth = 8
iter = 15272, queue = 21149, heur = -8.0, depth = 8
iter = 15273, queue = 21149, heur = -8.0, depth = 8
iter = 15274, queue = 21150, heur = -8.0, depth = 8
iter = 15275, queue = 21150, heur = -8.0, depth = 8
iter = 15276, queue = 21152, heur = -8.0, depth = 8
iter = 15277, queue = 21153, heur = -8.0, depth = 8
iter = 15278, queue = 21156, heur = -8.0, depth = 8
iter = 15279, queue = 21158, heur = -8.0, depth = 8
iter = 15280, queue = 21159, heur = -8.0, depth = 9
iter = 15281, queue = 21160, heur = -8.0, depth = 8
iter = 15282, queue = 21161, heur = -8.0, depth = 8
iter = 15283, queue = 21162, heur = -8.0, depth = 8
```

```
iter = 15284, queue = 21163, heur = -8.0, depth = 8
iter = 15285, queue = 21165, heur = -8.0, depth = 8
iter = 15286, queue = 21168, heur = -8.0, depth = 8
iter = 15287, queue = 21170, heur = -8.0, depth = 8
iter = 15288, queue = 21171, heur = -8.0, depth = 8
iter = 15289, queue = 21172, heur = -8.0, depth = 8
iter = 15290, queue = 21172, heur = -8.0, depth = 8
iter = 15291, queue = 21171, heur = -8.0, depth = 8
iter = 15292, queue = 21173, heur = -8.0, depth = 8
iter = 15293, queue = 21174, heur = -8.0, depth = 8
iter = 15294, queue = 21177, heur = -8.0, depth = 8
iter = 15295, queue = 21179, heur = -8.0, depth = 9
iter = 15296, queue = 21179, heur = -8.0, depth = 9
iter = 15297, queue = 21179, heur = -8.0, depth = 8
iter = 15298, queue = 21179, heur = -8.0, depth = 8
iter = 15299, queue = 21180, heur = -8.0, depth = 8
iter = 15300, queue = 21183, heur = -8.0, depth = 8
iter = 15301, queue = 21184, heur = -8.0, depth = 8
iter = 15302, queue = 21187, heur = -8.0, depth = 8
iter = 15303, queue = 21188, heur = -8.0, depth = 8
iter = 15304, queue = 21191, heur = -8.0, depth = 8
iter = 15305, queue = 21192, heur = -8.0, depth = 8
iter = 15306, queue = 21195, heur = -8.0, depth = 8
iter = 15307, queue = 21198, heur = -8.0, depth = 8
iter = 15308, queue = 21200, heur = -8.0, depth = 8
iter = 15309, queue = 21203, heur = -8.0, depth = 8
iter = 15310, queue = 21206, heur = -8.0, depth = 8
iter = 15311, queue = 21207, heur = -8.0, depth = 8
iter = 15312, queue = 21210, heur = -8.0, depth = 8
iter = 15313, queue = 21210, heur = -8.0, depth = 8
iter = 15314, queue = 21210, heur = -8.0, depth = 8
iter = 15315, queue = 21209, heur = -8.0, depth = 8
iter = 15316, queue = 21210, heur = -8.0, depth = 8
iter = 15317, queue = 21212, heur = -8.0, depth = 8
iter = 15318, queue = 21215, heur = -8.0, depth = 8
iter = 15319, queue = 21218, heur = -8.0, depth = 8
iter = 15320, queue = 21218, heur = -8.0, depth = 8
iter = 15321, queue = 21221, heur = -8.0, depth = 8
iter = 15322, queue = 21222, heur = -8.0, depth = 8
iter = 15323, queue = 21225, heur = -8.0, depth = 8
iter = 15324, queue = 21228, heur = -8.0, depth = 8
iter = 15325, queue = 21229, heur = -8.0, depth = 8
iter = 15326, queue = 21232, heur = -8.0, depth = 8
iter = 15327, queue = 21235, heur = -8.0, depth = 8
iter = 15328, queue = 21235, heur = -8.0, depth = 8
iter = 15329, queue = 21238, heur = -8.0, depth = 8
iter = 15330, queue = 21241, heur = -8.0, depth = 8
iter = 15331, queue = 21242, heur = -8.0, depth = 8
iter = 15332, queue = 21241, heur = -8.0, depth = 8
iter = 15333, queue = 21242, heur = -8.0, depth = 8
iter = 15334, queue = 21242, heur = -8.0, depth = 8
iter = 15335, queue = 21245, heur = -8.0, depth = 8
iter = 15336, queue = 21247, heur = -8.0, depth = 8
iter = 15337, queue = 21248, heur = -8.0, depth = 8
iter = 15338, queue = 21249, heur = -8.0, depth = 8
iter = 15339, queue = 21250, heur = -8.0, depth = 8
iter = 15340, queue = 21250, heur = -8.0, depth = 8
iter = 15341, queue = 21251, heur = -8.0, depth = 8
iter = 15342, queue = 21254, heur = -8.0, depth = 8
```

```
iter = 15343, queue = 21255, heur = -8.0, depth = 8
iter = 15344, queue = 21254, heur = -8.0, depth = 8
iter = 15345, queue = 21254, heur = -8.0, depth = 8
iter = 15346, queue = 21257, heur = -8.0, depth = 8
iter = 15347, queue = 21259, heur = -8.0, depth = 8
iter = 15348, queue = 21260, heur = -8.0, depth = 8
iter = 15349, queue = 21261, heur = -8.0, depth = 8
iter = 15350, queue = 21262, heur = -8.0, depth = 8
iter = 15351, queue = 21263, heur = -8.0, depth = 8
iter = 15352, queue = 21265, heur = -8.0, depth = 8
iter = 15353, queue = 21266, heur = -8.0, depth = 8
iter = 15354, queue = 21267, heur = -8.0, depth = 8
iter = 15355, queue = 21267, heur = -8.0, depth = 8
iter = 15356, queue = 21269, heur = -8.0, depth = 8
iter = 15357, queue = 21270, heur = -8.0, depth = 8
iter = 15358, queue = 21271, heur = -8.0, depth = 8
iter = 15359, queue = 21272, heur = -8.0, depth = 8
iter = 15360, queue = 21274, heur = -8.0, depth = 8
iter = 15361, queue = 21277, heur = -8.0, depth = 8
iter = 15362, queue = 21278, heur = -8.0, depth = 8
iter = 15363, queue = 21279, heur = -8.0, depth = 8
iter = 15364, queue = 21280, heur = -8.0, depth = 8
iter = 15365, queue = 21281, heur = -8.0, depth = 8
iter = 15366, queue = 21282, heur = -8.0, depth = 8
iter = 15367, queue = 21283, heur = -8.0, depth = 8
iter = 15368, queue = 21284, heur = -8.0, depth = 8
iter = 15369, queue = 21284, heur = -8.0, depth = 8
iter = 15370, queue = 21285, heur = -8.0, depth = 8
iter = 15371, queue = 21285, heur = -8.0, depth = 8
iter = 15372, queue = 21286, heur = -8.0, depth = 8
iter = 15373, queue = 21285, heur = -8.0, depth = 8
iter = 15374, queue = 21286, heur = -8.0, depth = 8
iter = 15375, queue = 21286, heur = -8.0, depth = 9
iter = 15376, queue = 21287, heur = -8.0, depth = 8
iter = 15377, queue = 21288, heur = -8.0, depth = 8
iter = 15378, queue = 21289, heur = -8.0, depth = 8
iter = 15379, queue = 21292, heur = -8.0, depth = 8
iter = 15380, queue = 21293, heur = -8.0, depth = 8
iter = 15381, queue = 21295, heur = -8.0, depth = 8
iter = 15382, queue = 21295, heur = -8.0, depth = 8
iter = 15383, queue = 21295, heur = -8.0, depth = 8
iter = 15384, queue = 21297, heur = -8.0, depth = 8
iter = 15385, queue = 21298, heur = -8.0, depth = 8
iter = 15386, queue = 21301, heur = -8.0, depth = 8
iter = 15387, queue = 21302, heur = -8.0, depth = 8
iter = 15388, queue = 21303, heur = -8.0, depth = 8
iter = 15389, queue = 21305, heur = -8.0, depth = 8
iter = 15390, queue = 21306, heur = -8.0, depth = 8
iter = 15391, queue = 21308, heur = -8.0, depth = 8
iter = 15392, queue = 21310, heur = -8.0, depth = 8
iter = 15393, queue = 21313, heur = -8.0, depth = 8
iter = 15394, queue = 21314, heur = -8.0, depth = 8
iter = 15395, queue = 21316, heur = -8.0, depth = 8
iter = 15396, queue = 21319, heur = -8.0, depth = 8
iter = 15397, queue = 21320, heur = -8.0, depth = 8
iter = 15398, queue = 21321, heur = -8.0, depth = 8
iter = 15399, queue = 21320, heur = -8.0, depth = 8
iter = 15400, queue = 21321, heur = -8.0, depth = 8
iter = 15401, queue = 21322, heur = -8.0, depth = 8
```

```
iter = 15402, queue = 21323, heur = -8.0, depth = 8
iter = 15403, queue = 21325, heur = -8.0, depth = 8
iter = 15404, queue = 21327, heur = -8.0, depth = 8
iter = 15405, queue = 21329, heur = -8.0, depth = 8
iter = 15406, queue = 21331, heur = -8.0, depth = 8
iter = 15407, queue = 21332, heur = -8.0, depth = 8
iter = 15408, queue = 21333, heur = -8.0, depth = 8
iter = 15409, queue = 21336, heur = -8.0, depth = 8
iter = 15410, queue = 21337, heur = -8.0, depth = 8
iter = 15411, queue = 21339, heur = -8.0, depth = 8
iter = 15412, queue = 21342, heur = -8.0, depth = 8
iter = 15413, queue = 21343, heur = -8.0, depth = 8
iter = 15414, queue = 21342, heur = -8.0, depth = 8
iter = 15415, queue = 21342, heur = -8.0, depth = 8
iter = 15416, queue = 21345, heur = -8.0, depth = 8
iter = 15417, queue = 21348, heur = -8.0, depth = 8
iter = 15418, queue = 21347, heur = -8.0, depth = 8
iter = 15419, queue = 21348, heur = -8.0, depth = 8
iter = 15420, queue = 21349, heur = -8.0, depth = 8
iter = 15421, queue = 21350, heur = -8.0, depth = 8
iter = 15422, queue = 21352, heur = -8.0, depth = 8
iter = 15423, queue = 21355, heur = -8.0, depth = 8
iter = 15424, queue = 21354, heur = -8.0, depth = 8
iter = 15425, queue = 21355, heur = -8.0, depth = 8
iter = 15426, queue = 21356, heur = -8.0, depth = 8
iter = 15427, queue = 21359, heur = -8.0, depth = 8
iter = 15428, queue = 21360, heur = -8.0, depth = 8
iter = 15429, queue = 21361, heur = -8.0, depth = 8
iter = 15430, queue = 21362, heur = -8.0, depth = 8
iter = 15431, queue = 21363, heur = -8.0, depth = 8
iter = 15432, queue = 21366, heur = -8.0, depth = 8
iter = 15433, queue = 21365, heur = -8.0, depth = 8
iter = 15434, queue = 21366, heur = -8.0, depth = 8
iter = 15435, queue = 21369, heur = -8.0, depth = 8
iter = 15436, queue = 21370, heur = -8.0, depth = 8
iter = 15437, queue = 21371, heur = -8.0, depth = 8
iter = 15438, queue = 21372, heur = -8.0, depth = 8
iter = 15439, queue = 21373, heur = -8.0, depth = 8
iter = 15440, queue = 21375, heur = -8.0, depth = 8
iter = 15441, queue = 21378, heur = -8.0, depth = 8
iter = 15442, queue = 21379, heur = -8.0, depth = 8
iter = 15443, queue = 21380, heur = -8.0, depth = 8
iter = 15444, queue = 21380, heur = -8.0, depth = 8
iter = 15445, queue = 21381, heur = -8.0, depth = 8
iter = 15446, queue = 21384, heur = -8.0, depth = 8
iter = 15447, queue = 21385, heur = -8.0, depth = 8
iter = 15448, queue = 21388, heur = -8.0, depth = 8
iter = 15449, queue = 21391, heur = -8.0, depth = 8
iter = 15450, queue = 21392, heur = -8.0, depth = 8
iter = 15451, queue = 21395, heur = -8.0, depth = 8
iter = 15452, queue = 21396, heur = -8.0, depth = 8
iter = 15453, queue = 21396, heur = -8.0, depth = 8
iter = 15454, queue = 21397, heur = -8.0, depth = 8
iter = 15455, queue = 21398, heur = -8.0, depth = 8
iter = 15456, queue = 21399, heur = -8.0, depth = 8
iter = 15457, queue = 21400, heur = -8.0, depth = 8
iter = 15458, queue = 21403, heur = -8.0, depth = 8
iter = 15459, queue = 21406, heur = -8.0, depth = 8
iter = 15460, queue = 21405, heur = -8.0, depth = 8
```

```
iter = 15461, queue = 21406, heur = -8.0, depth = 8
iter = 15462, queue = 21407, heur = -8.0, depth = 8
iter = 15463, queue = 21408, heur = -8.0, depth = 8
iter = 15464, queue = 21409, heur = -8.0, depth = 8
iter = 15465, queue = 21410, heur = -8.0, depth = 9
iter = 15466, queue = 21410, heur = -8.0, depth = 8
iter = 15467, queue = 21411, heur = -8.0, depth = 8
iter = 15468, queue = 21411, heur = -8.0, depth = 8
iter = 15469, queue = 21412, heur = -8.0, depth = 8
iter = 15470, queue = 21413, heur = -8.0, depth = 8
iter = 15471, queue = 21413, heur = -8.0, depth = 8
iter = 15472, queue = 21414, heur = -8.0, depth = 9
iter = 15473, queue = 21413, heur = -8.0, depth = 8
iter = 15474, queue = 21414, heur = -8.0, depth = 8
iter = 15475, queue = 21416, heur = -8.0, depth = 8
iter = 15476, queue = 21417, heur = -8.0, depth = 8
iter = 15477, queue = 21420, heur = -8.0, depth = 8
iter = 15478, queue = 21419, heur = -8.0, depth = 8
iter = 15479, queue = 21422, heur = -8.0, depth = 8
iter = 15480, queue = 21424, heur = -8.0, depth = 8
iter = 15481, queue = 21425, heur = -8.0, depth = 8
iter = 15482, queue = 21426, heur = -8.0, depth = 8
iter = 15483, queue = 21427, heur = -8.0, depth = 8
iter = 15484, queue = 21428, heur = -8.0, depth = 8
iter = 15485, queue = 21429, heur = -8.0, depth = 8
iter = 15486, queue = 21430, heur = -8.0, depth = 8
iter = 15487, queue = 21433, heur = -8.0, depth = 8
iter = 15488, queue = 21432, heur = -8.0, depth = 8
iter = 15489, queue = 21431, heur = -8.0, depth = 8
iter = 15490, queue = 21430, heur = -8.0, depth = 8
iter = 15491, queue = 21433, heur = -8.0, depth = 8
iter = 15492, queue = 21434, heur = -8.0, depth = 8
iter = 15493, queue = 21435, heur = -8.0, depth = 8
iter = 15494, queue = 21437, heur = -8.0, depth = 8
iter = 15495, queue = 21440, heur = -8.0, depth = 8
iter = 15496, queue = 21443, heur = -8.0, depth = 8
iter = 15497, queue = 21446, heur = -8.0, depth = 8
iter = 15498, queue = 21448, heur = -8.0, depth = 8
iter = 15499, queue = 21451, heur = -8.0, depth = 8
iter = 15500, queue = 21453, heur = -8.0, depth = 8
iter = 15501, queue = 21455, heur = -8.0, depth = 8
iter = 15502, queue = 21456, heur = -8.0, depth = 8
iter = 15503, queue = 21457, heur = -8.0, depth = 8
iter = 15504, queue = 21457, heur = -8.0, depth = 8
iter = 15505, queue = 21456, heur = -8.0, depth = 8
iter = 15506, queue = 21455, heur = -8.0, depth = 8
iter = 15507, queue = 21456, heur = -8.0, depth = 8
iter = 15508, queue = 21457, heur = -8.0, depth = 8
iter = 15509, queue = 21458, heur = -8.0, depth = 8
iter = 15510, queue = 21460, heur = -8.0, depth = 8
iter = 15511, queue = 21463, heur = -8.0, depth = 9
iter = 15512, queue = 21462, heur = -8.0, depth = 8
iter = 15513, queue = 21463, heur = -8.0, depth = 8
iter = 15514, queue = 21466, heur = -8.0, depth = 8
iter = 15515, queue = 21469, heur = -8.0, depth = 8
iter = 15516, queue = 21468, heur = -8.0, depth = 8
iter = 15517, queue = 21471, heur = -8.0, depth = 8
iter = 15518, queue = 21472, heur = -8.0, depth = 8
iter = 15519, queue = 21475, heur = -8.0, depth = 8
```

```
iter = 15520, queue = 21478, heur = -8.0, depth = 8
iter = 15521, queue = 21479, heur = -8.0, depth = 8
iter = 15522, queue = 21480, heur = -8.0, depth = 8
iter = 15523, queue = 21483, heur = -8.0, depth = 8
iter = 15524, queue = 21486, heur = -8.0, depth = 8
iter = 15525, queue = 21487, heur = -8.0, depth = 8
iter = 15526, queue = 21487, heur = -8.0, depth = 8
iter = 15527, queue = 21488, heur = -8.0, depth = 8
iter = 15528, queue = 21489, heur = -8.0, depth = 8
iter = 15529, queue = 21490, heur = -8.0, depth = 8
iter = 15530, queue = 21492, heur = -8.0, depth = 8
iter = 15531, queue = 21494, heur = -8.0, depth = 8
iter = 15532, queue = 21494, heur = -8.0, depth = 8
iter = 15533, queue = 21495, heur = -8.0, depth = 8
iter = 15534, queue = 21496, heur = -8.0, depth = 8
iter = 15535, queue = 21497, heur = -8.0, depth = 8
iter = 15536, queue = 21498, heur = -8.0, depth = 8
iter = 15537, queue = 21499, heur = -8.0, depth = 8
iter = 15538, queue = 21500, heur = -8.0, depth = 8
iter = 15539, queue = 21503, heur = -8.0, depth = 8
iter = 15540, queue = 21504, heur = -8.0, depth = 8
iter = 15541, queue = 21506, heur = -8.0, depth = 8
iter = 15542, queue = 21509, heur = -8.0, depth = 8
iter = 15543, queue = 21510, heur = -8.0, depth = 8
iter = 15544, queue = 21511, heur = -8.0, depth = 8
iter = 15545, queue = 21514, heur = -8.0, depth = 8
iter = 15546, queue = 21517, heur = -8.0, depth = 8
iter = 15547, queue = 21520, heur = -8.0, depth = 8
iter = 15548, queue = 21521, heur = -8.0, depth = 8
iter = 15549, queue = 21522, heur = -8.0, depth = 8
iter = 15550, queue = 21525, heur = -8.0, depth = 8
iter = 15551, queue = 21526, heur = -8.0, depth = 8
iter = 15552, queue = 21527, heur = -8.0, depth = 8
iter = 15553, queue = 21530, heur = -8.0, depth = 8
iter = 15554, queue = 21533, heur = -8.0, depth = 8
iter = 15555, queue = 21534, heur = -8.0, depth = 8
iter = 15556, queue = 21535, heur = -8.0, depth = 8
iter = 15557, queue = 21537, heur = -8.0, depth = 8
iter = 15558, queue = 21537, heur = -8.0, depth = 8
iter = 15559, queue = 21538, heur = -8.0, depth = 10
iter = 15560, queue = 21538, heur = -8.0, depth = 8
iter = 15561, queue = 21539, heur = -8.0, depth = 8
iter = 15562, queue = 21542, heur = -8.0, depth = 8
iter = 15563, queue = 21544, heur = -8.0, depth = 8
iter = 15564, queue = 21545, heur = -8.0, depth = 8
iter = 15565, queue = 21545, heur = -8.0, depth = 8
iter = 15566, queue = 21546, heur = -8.0, depth = 8
iter = 15567, queue = 21547, heur = -8.0, depth = 8
iter = 15568, queue = 21550, heur = -8.0, depth = 8
iter = 15569, queue = 21550, heur = -8.0, depth = 8
iter = 15570, queue = 21553, heur = -8.0, depth = 8
iter = 15571, queue = 21554, heur = -8.0, depth = 8
iter = 15572, queue = 21557, heur = -8.0, depth = 8
iter = 15573, queue = 21560, heur = -8.0, depth = 8
iter = 15574, queue = 21561, heur = -8.0, depth = 8
iter = 15575, queue = 21562, heur = -8.0, depth = 8
iter = 15576, queue = 21561, heur = -8.0, depth = 8
iter = 15577, queue = 21564, heur = -8.0, depth = 8
iter = 15578, queue = 21563, heur = -8.0, depth = 8
```

```
iter = 15579, queue = 21564, heur = -8.0, depth = 8
iter = 15580, queue = 21567, heur = -8.0, depth = 8
iter = 15581, queue = 21570, heur = -8.0, depth = 8
iter = 15582, queue = 21573, heur = -8.0, depth = 8
iter = 15583, queue = 21574, heur = -8.0, depth = 8
iter = 15584, queue = 21575, heur = -8.0, depth = 8
iter = 15585, queue = 21576, heur = -8.0, depth = 8
iter = 15586, queue = 21579, heur = -8.0, depth = 8
iter = 15587, queue = 21582, heur = -8.0, depth = 8
iter = 15588, queue = 21581, heur = -8.0, depth = 8
iter = 15589, queue = 21582, heur = -8.0, depth = 8
iter = 15590, queue = 21585, heur = -8.0, depth = 8
iter = 15591, queue = 21586, heur = -8.0, depth = 8
iter = 15592, queue = 21587, heur = -8.0, depth = 8
iter = 15593, queue = 21588, heur = -8.0, depth = 8
iter = 15594, queue = 21589, heur = -8.0, depth = 8
iter = 15595, queue = 21592, heur = -8.0, depth = 8
iter = 15596, queue = 21592, heur = -8.0, depth = 8
iter = 15597, queue = 21595, heur = -8.0, depth = 8
iter = 15598, queue = 21598, heur = -8.0, depth = 8
iter = 15599, queue = 21601, heur = -8.0, depth = 8
iter = 15600, queue = 21604, heur = -8.0, depth = 8
iter = 15601, queue = 21604, heur = -8.0, depth = 8
iter = 15602, queue = 21607, heur = -8.0, depth = 8
iter = 15603, queue = 21607, heur = -8.0, depth = 8
iter = 15604, queue = 21608, heur = -8.0, depth = 8
iter = 15605, queue = 21607, heur = -8.0, depth = 8
iter = 15606, queue = 21608, heur = -8.0, depth = 8
iter = 15607, queue = 21608, heur = -8.0, depth = 8
iter = 15608, queue = 21607, heur = -8.0, depth = 8
iter = 15609, queue = 21610, heur = -8.0, depth = 8
iter = 15610, queue = 21613, heur = -8.0, depth = 8
iter = 15611, queue = 21614, heur = -8.0, depth = 8
iter = 15612, queue = 21615, heur = -8.0, depth = 8
iter = 15613, queue = 21615, heur = -8.0, depth = 8
iter = 15614, queue = 21618, heur = -8.0, depth = 8
iter = 15615, queue = 21620, heur = -8.0, depth = 8
iter = 15616, queue = 21621, heur = -8.0, depth = 8
iter = 15617, queue = 21624, heur = -8.0, depth = 8
iter = 15618, queue = 21627, heur = -8.0, depth = 8
iter = 15619, queue = 21627, heur = -8.0, depth = 8
iter = 15620, queue = 21630, heur = -8.0, depth = 8
iter = 15621, queue = 21633, heur = -8.0, depth = 8
iter = 15622, queue = 21634, heur = -8.0, depth = 8
iter = 15623, queue = 21636, heur = -8.0, depth = 8
iter = 15624, queue = 21637, heur = -8.0, depth = 8
iter = 15625, queue = 21636, heur = -8.0, depth = 8
iter = 15626, queue = 21637, heur = -8.0, depth = 8
iter = 15627, queue = 21638, heur = -8.0, depth = 8
iter = 15628, queue = 21639, heur = -8.0, depth = 8
iter = 15629, queue = 21642, heur = -8.0, depth = 8
iter = 15630, queue = 21643, heur = -8.0, depth = 8
iter = 15631, queue = 21643, heur = -8.0, depth = 8
iter = 15632, queue = 21644, heur = -8.0, depth = 8
iter = 15633, queue = 21647, heur = -8.0, depth = 8
iter = 15634, queue = 21650, heur = -8.0, depth = 8
iter = 15635, queue = 21651, heur = -8.0, depth = 8
iter = 15636, queue = 21651, heur = -8.0, depth = 8
iter = 15637, queue = 21652, heur = -8.0, depth = 8
```

```
iter = 15638, queue = 21653, heur = -8.0, depth = 8
iter = 15639, queue = 21653, heur = -8.0, depth = 8
iter = 15640, queue = 21655, heur = -8.0, depth = 8
iter = 15641, queue = 21656, heur = -8.0, depth = 8
iter = 15642, queue = 21657, heur = -8.0, depth = 9
iter = 15643, queue = 21658, heur = -8.0, depth = 8
iter = 15644, queue = 21659, heur = -8.0, depth = 8
iter = 15645, queue = 21660, heur = -8.0, depth = 8
iter = 15646, queue = 21661, heur = -8.0, depth = 8
iter = 15647, queue = 21664, heur = -8.0, depth = 8
iter = 15648, queue = 21665, heur = -8.0, depth = 8
iter = 15649, queue = 21666, heur = -8.0, depth = 8
iter = 15650, queue = 21667, heur = -8.0, depth = 8
iter = 15651, queue = 21670, heur = -8.0, depth = 8
iter = 15652, queue = 21671, heur = -8.0, depth = 8
iter = 15653, queue = 21670, heur = -8.0, depth = 8
iter = 15654, queue = 21671, heur = -8.0, depth = 8
iter = 15655, queue = 21674, heur = -8.0, depth = 8
iter = 15656, queue = 21674, heur = -8.0, depth = 8
iter = 15657, queue = 21673, heur = -8.0, depth = 8
iter = 15658, queue = 21672, heur = -8.0, depth = 8
iter = 15659, queue = 21673, heur = -8.0, depth = 8
iter = 15660, queue = 21674, heur = -8.0, depth = 8
iter = 15661, queue = 21677, heur = -8.0, depth = 8
iter = 15662, queue = 21677, heur = -8.0, depth = 8
iter = 15663, queue = 21678, heur = -8.0, depth = 8
iter = 15664, queue = 21678, heur = -8.0, depth = 9
iter = 15665, queue = 21679, heur = -8.0, depth = 8
iter = 15666, queue = 21680, heur = -8.0, depth = 8
iter = 15667, queue = 21683, heur = -8.0, depth = 8
iter = 15668, queue = 21684, heur = -8.0, depth = 8
iter = 15669, queue = 21686, heur = -8.0, depth = 8
iter = 15670, queue = 21687, heur = -8.0, depth = 8
iter = 15671, queue = 21686, heur = -8.0, depth = 8
iter = 15672, queue = 21687, heur = -8.0, depth = 8
iter = 15673, queue = 21690, heur = -8.0, depth = 8
iter = 15674, queue = 21689, heur = -8.0, depth = 8
iter = 15675, queue = 21690, heur = -8.0, depth = 8
iter = 15676, queue = 21693, heur = -8.0, depth = 8
iter = 15677, queue = 21696, heur = -8.0, depth = 8
iter = 15678, queue = 21699, heur = -8.0, depth = 8
iter = 15679, queue = 21699, heur = -8.0, depth = 8
iter = 15680, queue = 21702, heur = -8.0, depth = 9
iter = 15681, queue = 21702, heur = -8.0, depth = 8
iter = 15682, queue = 21705, heur = -8.0, depth = 8
iter = 15683, queue = 21708, heur = -8.0, depth = 8
iter = 15684, queue = 21711, heur = -8.0, depth = 8
iter = 15685, queue = 21712, heur = -8.0, depth = 8
iter = 15686, queue = 21712, heur = -8.0, depth = 8
iter = 15687, queue = 21713, heur = -8.0, depth = 8
iter = 15688, queue = 21715, heur = -8.0, depth = 8
iter = 15689, queue = 21718, heur = -8.0, depth = 8
iter = 15690, queue = 21719, heur = -8.0, depth = 8
iter = 15691, queue = 21721, heur = -8.0, depth = 8
iter = 15692, queue = 21724, heur = -8.0, depth = 8
iter = 15693, queue = 21727, heur = -8.0, depth = 8
iter = 15694, queue = 21730, heur = -8.0, depth = 8
iter = 15695, queue = 21731, heur = -8.0, depth = 8
iter = 15696, queue = 21732, heur = -8.0, depth = 8
```

```
iter = 15697, queue = 21733, heur = -8.0, depth = 8
iter = 15698, queue = 21734, heur = -8.0, depth = 8
iter = 15699, queue = 21735, heur = -8.0, depth = 8
iter = 15700, queue = 21736, heur = -8.0, depth = 8
iter = 15701, queue = 21737, heur = -8.0, depth = 8
iter = 15702, queue = 21738, heur = -8.0, depth = 8
iter = 15703, queue = 21739, heur = -8.0, depth = 9
iter = 15704, queue = 21742, heur = -8.0, depth = 8
iter = 15705, queue = 21743, heur = -8.0, depth = 8
iter = 15706, queue = 21744, heur = -8.0, depth = 8
iter = 15707, queue = 21745, heur = -8.0, depth = 8
iter = 15708, queue = 21744, heur = -8.0, depth = 8
iter = 15709, queue = 21746, heur = -8.0, depth = 8
iter = 15710, queue = 21749, heur = -8.0, depth = 8
iter = 15711, queue = 21750, heur = -8.0, depth = 8
iter = 15712, queue = 21749, heur = -8.0, depth = 8
iter = 15713, queue = 21748, heur = -8.0, depth = 8
iter = 15714, queue = 21749, heur = -8.0, depth = 8
iter = 15715, queue = 21749, heur = -8.0, depth = 8
iter = 15716, queue = 21749, heur = -8.0, depth = 8
iter = 15717, queue = 21748, heur = -8.0, depth = 8
iter = 15718, queue = 21749, heur = -8.0, depth = 8
iter = 15719, queue = 21750, heur = -8.0, depth = 8
iter = 15720, queue = 21750, heur = -8.0, depth = 8
iter = 15721, queue = 21752, heur = -8.0, depth = 8
iter = 15722, queue = 21755, heur = -8.0, depth = 8
iter = 15723, queue = 21758, heur = -8.0, depth = 8
iter = 15724, queue = 21759, heur = -8.0, depth = 8
iter = 15725, queue = 21761, heur = -8.0, depth = 8
iter = 15726, queue = 21761, heur = -8.0, depth = 8
iter = 15727, queue = 21763, heur = -8.0, depth = 8
iter = 15728, queue = 21764, heur = -8.0, depth = 8
iter = 15729, queue = 21767, heur = -8.0, depth = 8
iter = 15730, queue = 21769, heur = -8.0, depth = 8
iter = 15731, queue = 21770, heur = -8.0, depth = 8
iter = 15732, queue = 21769, heur = -8.0, depth = 8
iter = 15733, queue = 21770, heur = -8.0, depth = 8
iter = 15734, queue = 21771, heur = -8.0, depth = 8
iter = 15735, queue = 21772, heur = -8.0, depth = 8
iter = 15736, queue = 21774, heur = -8.0, depth = 8
iter = 15737, queue = 21775, heur = -8.0, depth = 8
iter = 15738, queue = 21777, heur = -8.0, depth = 8
iter = 15739, queue = 21778, heur = -8.0, depth = 8
iter = 15740, queue = 21779, heur = -8.0, depth = 8
iter = 15741, queue = 21780, heur = -8.0, depth = 8
iter = 15742, queue = 21783, heur = -8.0, depth = 8
iter = 15743, queue = 21786, heur = -8.0, depth = 8
iter = 15744, queue = 21787, heur = -8.0, depth = 8
iter = 15745, queue = 21788, heur = -8.0, depth = 8
iter = 15746, queue = 21788, heur = -8.0, depth = 8
iter = 15747, queue = 21789, heur = -8.0, depth = 8
iter = 15748, queue = 21790, heur = -8.0, depth = 8
iter = 15749, queue = 21791, heur = -8.0, depth = 8
iter = 15750, queue = 21792, heur = -8.0, depth = 8
iter = 15751, queue = 21792, heur = -8.0, depth = 8
iter = 15752, queue = 21793, heur = -8.0, depth = 8
iter = 15753, queue = 21793, heur = -8.0, depth = 8
iter = 15754, queue = 21794, heur = -8.0, depth = 8
iter = 15755, queue = 21797, heur = -8.0, depth = 8
```

```
iter = 15756, queue = 21798, heur = -8.0, depth = 8
iter = 15757, queue = 21801, heur = -8.0, depth = 8
iter = 15758, queue = 21801, heur = -8.0, depth = 8
iter = 15759, queue = 21802, heur = -8.0, depth = 8
iter = 15760, queue = 21801, heur = -8.0, depth = 8
iter = 15761, queue = 21801, heur = -8.0, depth = 8
iter = 15762, queue = 21804, heur = -8.0, depth = 8
iter = 15763, queue = 21804, heur = -8.0, depth = 8
iter = 15764, queue = 21805, heur = -8.0, depth = 8
iter = 15765, queue = 21807, heur = -8.0, depth = 8
iter = 15766, queue = 21810, heur = -8.0, depth = 8
iter = 15767, queue = 21813, heur = -8.0, depth = 8
iter = 15768, queue = 21812, heur = -8.0, depth = 8
iter = 15769, queue = 21815, heur = -8.0, depth = 8
iter = 15770, queue = 21817, heur = -8.0, depth = 8
iter = 15771, queue = 21819, heur = -8.0, depth = 8
iter = 15772, queue = 21820, heur = -8.0, depth = 8
iter = 15773, queue = 21820, heur = -8.0, depth = 8
iter = 15774, queue = 21821, heur = -8.0, depth = 8
iter = 15775, queue = 21824, heur = -8.0, depth = 8
iter = 15776, queue = 21825, heur = -8.0, depth = 8
iter = 15777, queue = 21827, heur = -8.0, depth = 8
iter = 15778, queue = 21828, heur = -8.0, depth = 8
iter = 15779, queue = 21829, heur = -8.0, depth = 8
iter = 15780, queue = 21832, heur = -8.0, depth = 8
iter = 15781, queue = 21835, heur = -8.0, depth = 8
iter = 15782, queue = 21838, heur = -8.0, depth = 8
iter = 15783, queue = 21841, heur = -8.0, depth = 8
iter = 15784, queue = 21841, heur = -8.0, depth = 8
iter = 15785, queue = 21843, heur = -8.0, depth = 8
iter = 15786, queue = 21844, heur = -8.0, depth = 8
iter = 15787, queue = 21847, heur = -8.0, depth = 8
iter = 15788, queue = 21850, heur = -8.0, depth = 8
iter = 15789, queue = 21851, heur = -8.0, depth = 8
iter = 15790, queue = 21853, heur = -8.0, depth = 8
iter = 15791, queue = 21856, heur = -8.0, depth = 8
iter = 15792, queue = 21859, heur = -8.0, depth = 8
iter = 15793, queue = 21858, heur = -8.0, depth = 8
iter = 15794, queue = 21860, heur = -8.0, depth = 8
iter = 15795, queue = 21859, heur = -8.0, depth = 8
iter = 15796, queue = 21860, heur = -8.0, depth = 8
iter = 15797, queue = 21861, heur = -8.0, depth = 8
iter = 15798, queue = 21860, heur = -8.0, depth = 8
iter = 15799, queue = 21863, heur = -8.0, depth = 8
iter = 15800, queue = 21864, heur = -8.0, depth = 8
iter = 15801, queue = 21863, heur = -8.0, depth = 8
iter = 15802, queue = 21866, heur = -8.0, depth = 10
iter = 15803, queue = 21867, heur = -8.0, depth = 8
iter = 15804, queue = 21868, heur = -8.0, depth = 8
iter = 15805, queue = 21869, heur = -8.0, depth = 8
iter = 15806, queue = 21872, heur = -8.0, depth = 8
iter = 15807, queue = 21875, heur = -8.0, depth = 8
iter = 15808, queue = 21876, heur = -8.0, depth = 8
iter = 15809, queue = 21877, heur = -8.0, depth = 8
iter = 15810, queue = 21877, heur = -8.0, depth = 8
iter = 15811, queue = 21880, heur = -8.0, depth = 8
iter = 15812, queue = 21882, heur = -8.0, depth = 8
iter = 15813, queue = 21883, heur = -8.0, depth = 8
iter = 15814, queue = 21884, heur = -8.0, depth = 8
```

```
iter = 15815, queue = 21883, heur = -8.0, depth = 8
iter = 15816, queue = 21884, heur = -8.0, depth = 8
iter = 15817, queue = 21887, heur = -8.0, depth = 8
iter = 15818, queue = 21888, heur = -8.0, depth = 8
iter = 15819, queue = 21889, heur = -8.0, depth = 8
iter = 15820, queue = 21890, heur = -8.0, depth = 8
iter = 15821, queue = 21891, heur = -8.0, depth = 8
iter = 15822, queue = 21892, heur = -8.0, depth = 8
iter = 15823, queue = 21891, heur = -8.0, depth = 8
iter = 15824, queue = 21890, heur = -8.0, depth = 8
iter = 15825, queue = 21892, heur = -8.0, depth = 8
iter = 15826, queue = 21893, heur = -8.0, depth = 8
iter = 15827, queue = 21894, heur = -8.0, depth = 8
iter = 15828, queue = 21897, heur = -8.0, depth = 8
iter = 15829, queue = 21898, heur = -8.0, depth = 8
iter = 15830, queue = 21901, heur = -8.0, depth = 8
iter = 15831, queue = 21903, heur = -8.0, depth = 8
iter = 15832, queue = 21904, heur = -8.0, depth = 8
iter = 15833, queue = 21904, heur = -8.0, depth = 8
iter = 15834, queue = 21906, heur = -8.0, depth = 8
iter = 15835, queue = 21905, heur = -8.0, depth = 8
iter = 15836, queue = 21907, heur = -8.0, depth = 8
iter = 15837, queue = 21907, heur = -8.0, depth = 8
iter = 15838, queue = 21908, heur = -8.0, depth = 8
iter = 15839, queue = 21908, heur = -8.0, depth = 8
iter = 15840, queue = 21909, heur = -8.0, depth = 8
iter = 15841, queue = 21910, heur = -8.0, depth = 8
iter = 15842, queue = 21910, heur = -8.0, depth = 8
iter = 15843, queue = 21910, heur = -8.0, depth = 8
iter = 15844, queue = 21911, heur = -8.0, depth = 8
iter = 15845, queue = 21912, heur = -8.0, depth = 8
iter = 15846, queue = 21915, heur = -8.0, depth = 8
iter = 15847, queue = 21917, heur = -8.0, depth = 8
iter = 15848, queue = 21918, heur = -8.0, depth = 8
iter = 15849, queue = 21919, heur = -8.0, depth = 8
iter = 15850, queue = 21920, heur = -8.0, depth = 8
iter = 15851, queue = 21921, heur = -8.0, depth = 8
iter = 15852, queue = 21923, heur = -8.0, depth = 8
iter = 15853, queue = 21923, heur = -8.0, depth = 8
iter = 15854, queue = 21926, heur = -8.0, depth = 8
iter = 15855, queue = 21927, heur = -8.0, depth = 8
iter = 15856, queue = 21930, heur = -8.0, depth = 8
iter = 15857, queue = 21931, heur = -8.0, depth = 8
iter = 15858, queue = 21932, heur = -8.0, depth = 8
iter = 15859, queue = 21933, heur = -8.0, depth = 8
iter = 15860, queue = 21933, heur = -8.0, depth = 8
iter = 15861, queue = 21933, heur = -8.0, depth = 8
iter = 15862, queue = 21934, heur = -8.0, depth = 8
iter = 15863, queue = 21936, heur = -8.0, depth = 8
iter = 15864, queue = 21937, heur = -8.0, depth = 8
iter = 15865, queue = 21938, heur = -8.0, depth = 8
iter = 15866, queue = 21941, heur = -8.0, depth = 8
iter = 15867, queue = 21942, heur = -8.0, depth = 8
iter = 15868, queue = 21945, heur = -8.0, depth = 8
iter = 15869, queue = 21948, heur = -8.0, depth = 8
iter = 15870, queue = 21949, heur = -8.0, depth = 8
iter = 15871, queue = 21952, heur = -8.0, depth = 8
iter = 15872, queue = 21953, heur = -8.0, depth = 8
iter = 15873, queue = 21953, heur = -8.0, depth = 8
```

```
iter = 15874, queue = 21954, heur = -8.0, depth = 8
iter = 15875, queue = 21954, heur = -8.0, depth = 8
iter = 15876, queue = 21955, heur = -8.0, depth = 8
iter = 15877, queue = 21956, heur = -8.0, depth = 8
iter = 15878, queue = 21957, heur = -8.0, depth = 8
iter = 15879, queue = 21958, heur = -8.0, depth = 8
iter = 15880, queue = 21961, heur = -8.0, depth = 8
iter = 15881, queue = 21962, heur = -8.0, depth = 8
iter = 15882, queue = 21965, heur = -8.0, depth = 8
iter = 15883, queue = 21968, heur = -8.0, depth = 8
iter = 15884, queue = 21971, heur = -8.0, depth = 8
iter = 15885, queue = 21973, heur = -8.0, depth = 8
iter = 15886, queue = 21976, heur = -8.0, depth = 8
iter = 15887, queue = 21977, heur = -8.0, depth = 8
iter = 15888, queue = 21980, heur = -8.0, depth = 8
iter = 15889, queue = 21981, heur = -8.0, depth = 8
iter = 15890, queue = 21981, heur = -8.0, depth = 8
iter = 15891, queue = 21982, heur = -8.0, depth = 8
iter = 15892, queue = 21985, heur = -8.0, depth = 8
iter = 15893, queue = 21988, heur = -8.0, depth = 8
iter = 15894, queue = 21991, heur = -8.0, depth = 8
iter = 15895, queue = 21992, heur = -8.0, depth = 8
iter = 15896, queue = 21995, heur = -8.0, depth = 8
iter = 15897, queue = 21997, heur = -8.0, depth = 8
iter = 15898, queue = 21999, heur = -8.0, depth = 8
iter = 15899, queue = 22000, heur = -8.0, depth = 8
iter = 15900, queue = 22001, heur = -8.0, depth = 8
iter = 15901, queue = 22001, heur = -8.0, depth = 8
iter = 15902, queue = 22004, heur = -8.0, depth = 8
iter = 15903, queue = 22005, heur = -8.0, depth = 8
iter = 15904, queue = 22006, heur = -8.0, depth = 8
iter = 15905, queue = 22008, heur = -8.0, depth = 8
iter = 15906, queue = 22009, heur = -8.0, depth = 8
iter = 15907, queue = 22010, heur = -8.0, depth = 8
iter = 15908, queue = 22010, heur = -8.0, depth = 8
iter = 15909, queue = 22011, heur = -8.0, depth = 8
iter = 15910, queue = 22014, heur = -8.0, depth = 8
iter = 15911, queue = 22015, heur = -8.0, depth = 8
iter = 15912, queue = 22014, heur = -8.0, depth = 8
iter = 15913, queue = 22015, heur = -8.0, depth = 8
iter = 15914, queue = 22016, heur = -8.0, depth = 8
iter = 15915, queue = 22015, heur = -8.0, depth = 8
iter = 15916, queue = 22014, heur = -8.0, depth = 8
iter = 15917, queue = 22013, heur = -8.0, depth = 14
iter = 15918, queue = 22014, heur = -8.0, depth = 8
iter = 15919, queue = 22017, heur = -8.0, depth = 8
iter = 15920, queue = 22019, heur = -8.0, depth = 8
iter = 15921, queue = 22021, heur = -8.0, depth = 8
iter = 15922, queue = 22020, heur = -8.0, depth = 8
iter = 15923, queue = 22022, heur = -8.0, depth = 8
iter = 15924, queue = 22023, heur = -8.0, depth = 8
iter = 15925, queue = 22025, heur = -8.0, depth = 8
iter = 15926, queue = 22028, heur = -8.0, depth = 8
iter = 15927, queue = 22027, heur = -8.0, depth = 8
iter = 15928, queue = 22030, heur = -8.0, depth = 8
iter = 15929, queue = 22032, heur = -8.0, depth = 8
iter = 15930, queue = 22031, heur = -8.0, depth = 8
iter = 15931, queue = 22032, heur = -8.0, depth = 8
iter = 15932, queue = 22033, heur = -8.0, depth = 8
```

```
iter = 15933, queue = 22034, heur = -8.0, depth = 8
iter = 15934, queue = 22034, heur = -8.0, depth = 8
iter = 15935, queue = 22035, heur = -8.0, depth = 8
iter = 15936, queue = 22036, heur = -8.0, depth = 8
iter = 15937, queue = 22036, heur = -8.0, depth = 8
iter = 15938, queue = 22037, heur = -8.0, depth = 8
iter = 15939, queue = 22037, heur = -8.0, depth = 8
iter = 15940, queue = 22039, heur = -8.0, depth = 8
iter = 15941, queue = 22042, heur = -8.0, depth = 8
iter = 15942, queue = 22043, heur = -8.0, depth = 8
iter = 15943, queue = 22044, heur = -8.0, depth = 8
iter = 15944, queue = 22047, heur = -8.0, depth = 8
iter = 15945, queue = 22046, heur = -8.0, depth = 8
iter = 15946, queue = 22049, heur = -8.0, depth = 8
iter = 15947, queue = 22052, heur = -8.0, depth = 8
iter = 15948, queue = 22053, heur = -8.0, depth = 8
iter = 15949, queue = 22055, heur = -8.0, depth = 8
iter = 15950, queue = 22056, heur = -8.0, depth = 8
iter = 15951, queue = 22057, heur = -8.0, depth = 8
iter = 15952, queue = 22056, heur = -8.0, depth = 8
iter = 15953, queue = 22056, heur = -8.0, depth = 8
iter = 15954, queue = 22057, heur = -8.0, depth = 8
iter = 15955, queue = 22057, heur = -8.0, depth = 8
iter = 15956, queue = 22058, heur = -8.0, depth = 8
iter = 15957, queue = 22059, heur = -8.0, depth = 8
iter = 15958, queue = 22060, heur = -8.0, depth = 8
iter = 15959, queue = 22061, heur = -8.0, depth = 8
iter = 15960, queue = 22062, heur = -8.0, depth = 8
iter = 15961, queue = 22063, heur = -8.0, depth = 8
iter = 15962, queue = 22066, heur = -8.0, depth = 8
iter = 15963, queue = 22065, heur = -8.0, depth = 8
iter = 15964, queue = 22067, heur = -8.0, depth = 8
iter = 15965, queue = 22069, heur = -8.0, depth = 8
iter = 15966, queue = 22070, heur = -8.0, depth = 8
iter = 15967, queue = 22073, heur = -8.0, depth = 8
iter = 15968, queue = 22076, heur = -8.0, depth = 8
iter = 15969, queue = 22079, heur = -8.0, depth = 8
iter = 15970, queue = 22078, heur = -8.0, depth = 8
iter = 15971, queue = 22081, heur = -8.0, depth = 8
iter = 15972, queue = 22082, heur = -8.0, depth = 8
iter = 15973, queue = 22082, heur = -8.0, depth = 8
iter = 15974, queue = 22083, heur = -8.0, depth = 8
iter = 15975, queue = 22084, heur = -8.0, depth = 8
iter = 15976, queue = 22085, heur = -8.0, depth = 8
iter = 15977, queue = 22085, heur = -8.0, depth = 8
iter = 15978, queue = 22086, heur = -8.0, depth = 8
iter = 15979, queue = 22088, heur = -8.0, depth = 8
iter = 15980, queue = 22090, heur = -8.0, depth = 8
iter = 15981, queue = 22090, heur = -8.0, depth = 8
iter = 15982, queue = 22091, heur = -8.0, depth = 8
iter = 15983, queue = 22092, heur = -8.0, depth = 8
iter = 15984, queue = 22092, heur = -8.0, depth = 8
iter = 15985, queue = 22091, heur = -8.0, depth = 8
iter = 15986, queue = 22092, heur = -8.0, depth = 8
iter = 15987, queue = 22093, heur = -8.0, depth = 8
iter = 15988, queue = 22094, heur = -8.0, depth = 8
iter = 15989, queue = 22094, heur = -8.0, depth = 8
iter = 15990, queue = 22097, heur = -8.0, depth = 8
iter = 15991, queue = 22098, heur = -8.0, depth = 8
```

```
iter = 15992, queue = 22099, heur = -8.0, depth = 8
iter = 15993, queue = 22102, heur = -8.0, depth = 8
iter = 15994, queue = 22101, heur = -8.0, depth = 8
iter = 15995, queue = 22102, heur = -8.0, depth = 8
iter = 15996, queue = 22104, heur = -8.0, depth = 8
iter = 15997, queue = 22103, heur = -8.0, depth = 8
iter = 15998, queue = 22103, heur = -8.0, depth = 8
iter = 15999, queue = 22106, heur = -8.0, depth = 8
iter = 16000, queue = 22105, heur = -8.0, depth = 8
iter = 16001, queue = 22106, heur = -8.0, depth = 8
iter = 16002, queue = 22107, heur = -8.0, depth = 8
iter = 16003, queue = 22110, heur = -8.0, depth = 8
iter = 16004, queue = 22110, heur = -8.0, depth = 8
iter = 16005, queue = 22112, heur = -8.0, depth = 8
iter = 16006, queue = 22115, heur = -8.0, depth = 8
iter = 16007, queue = 22118, heur = -8.0, depth = 8
iter = 16008, queue = 22120, heur = -8.0, depth = 8
iter = 16009, queue = 22121, heur = -8.0, depth = 8
iter = 16010, queue = 22120, heur = -8.0, depth = 8
iter = 16011, queue = 22121, heur = -8.0, depth = 8
iter = 16012, queue = 22122, heur = -8.0, depth = 8
iter = 16013, queue = 22124, heur = -8.0, depth = 8
iter = 16014, queue = 22125, heur = -8.0, depth = 8
iter = 16015, queue = 22128, heur = -8.0, depth = 8
iter = 16016, queue = 22129, heur = -8.0, depth = 8
iter = 16017, queue = 22131, heur = -8.0, depth = 8
iter = 16018, queue = 22132, heur = -8.0, depth = 8
iter = 16019, queue = 22134, heur = -8.0, depth = 8
iter = 16020, queue = 22137, heur = -8.0, depth = 8
iter = 16021, queue = 22138, heur = -8.0, depth = 8
iter = 16022, queue = 22140, heur = -8.0, depth = 8
iter = 16023, queue = 22139, heur = -8.0, depth = 8
iter = 16024, queue = 22140, heur = -8.0, depth = 8
iter = 16025, queue = 22141, heur = -8.0, depth = 8
iter = 16026, queue = 22144, heur = -8.0, depth = 8
iter = 16027, queue = 22145, heur = -8.0, depth = 8
iter = 16028, queue = 22146, heur = -8.0, depth = 8
iter = 16029, queue = 22149, heur = -8.0, depth = 8
iter = 16030, queue = 22152, heur = -8.0, depth = 8
iter = 16031, queue = 22152, heur = -8.0, depth = 8
iter = 16032, queue = 22152, heur = -8.0, depth = 8
iter = 16033, queue = 22155, heur = -8.0, depth = 8
iter = 16034, queue = 22158, heur = -8.0, depth = 8
iter = 16035, queue = 22161, heur = -8.0, depth = 8
iter = 16036, queue = 22162, heur = -8.0, depth = 8
iter = 16037, queue = 22163, heur = -8.0, depth = 8
iter = 16038, queue = 22162, heur = -8.0, depth = 8
iter = 16039, queue = 22165, heur = -8.0, depth = 8
iter = 16040, queue = 22168, heur = -8.0, depth = 8
iter = 16041, queue = 22169, heur = -8.0, depth = 8
iter = 16042, queue = 22170, heur = -8.0, depth = 8
iter = 16043, queue = 22169, heur = -8.0, depth = 8
iter = 16044, queue = 22171, heur = -8.0, depth = 8
iter = 16045, queue = 22171, heur = -8.0, depth = 8
iter = 16046, queue = 22172, heur = -8.0, depth = 8
iter = 16047, queue = 22175, heur = -8.0, depth = 8
iter = 16048, queue = 22178, heur = -8.0, depth = 9
iter = 16049, queue = 22181, heur = -8.0, depth = 8
iter = 16050, queue = 22184, heur = -8.0, depth = 8
```

```
iter = 16051, queue = 22184, heur = -8.0, depth = 8
iter = 16052, queue = 22186, heur = -8.0, depth = 8
iter = 16053, queue = 22185, heur = -8.0, depth = 8
iter = 16054, queue = 22186, heur = -8.0, depth = 8
iter = 16055, queue = 22187, heur = -8.0, depth = 8
iter = 16056, queue = 22188, heur = -8.0, depth = 8
iter = 16057, queue = 22189, heur = -8.0, depth = 8
iter = 16058, queue = 22192, heur = -8.0, depth = 8
iter = 16059, queue = 22193, heur = -8.0, depth = 8
iter = 16060, queue = 22194, heur = -8.0, depth = 8
iter = 16061, queue = 22196, heur = -8.0, depth = 8
iter = 16062, queue = 22197, heur = -8.0, depth = 8
iter = 16063, queue = 22198, heur = -8.0, depth = 8
iter = 16064, queue = 22197, heur = -8.0, depth = 8
iter = 16065, queue = 22200, heur = -8.0, depth = 8
iter = 16066, queue = 22199, heur = -8.0, depth = 8
iter = 16067, queue = 22201, heur = -8.0, depth = 8
iter = 16068, queue = 22203, heur = -8.0, depth = 8
iter = 16069, queue = 22206, heur = -8.0, depth = 8
iter = 16070, queue = 22206, heur = -8.0, depth = 8
iter = 16071, queue = 22209, heur = -8.0, depth = 8
iter = 16072, queue = 22212, heur = -8.0, depth = 8
iter = 16073, queue = 22213, heur = -8.0, depth = 8
iter = 16074, queue = 22214, heur = -8.0, depth = 8
iter = 16075, queue = 22215, heur = -8.0, depth = 8
iter = 16076, queue = 22216, heur = -8.0, depth = 8
iter = 16077, queue = 22219, heur = -8.0, depth = 8
iter = 16078, queue = 22221, heur = -8.0, depth = 8
iter = 16079, queue = 22221, heur = -8.0, depth = 8
iter = 16080, queue = 22222, heur = -8.0, depth = 8
iter = 16081, queue = 22224, heur = -8.0, depth = 8
iter = 16082, queue = 22224, heur = -8.0, depth = 8
iter = 16083, queue = 22225, heur = -8.0, depth = 8
iter = 16084, queue = 22227, heur = -8.0, depth = 8
iter = 16085, queue = 22227, heur = -8.0, depth = 8
iter = 16086, queue = 22228, heur = -8.0, depth = 8
iter = 16087, queue = 22229, heur = -8.0, depth = 8
iter = 16088, queue = 22232, heur = -8.0, depth = 8
iter = 16089, queue = 22235, heur = -8.0, depth = 8
iter = 16090, queue = 22236, heur = -8.0, depth = 11
iter = 16091, queue = 22235, heur = -8.0, depth = 8
iter = 16092, queue = 22237, heur = -8.0, depth = 8
iter = 16093, queue = 22240, heur = -8.0, depth = 8
iter = 16094, queue = 22242, heur = -8.0, depth = 8
iter = 16095, queue = 22243, heur = -8.0, depth = 8
iter = 16096, queue = 22246, heur = -8.0, depth = 8
iter = 16097, queue = 22249, heur = -8.0, depth = 8
iter = 16098, queue = 22250, heur = -8.0, depth = 8
iter = 16099, queue = 22249, heur = -8.0, depth = 8
iter = 16100, queue = 22250, heur = -8.0, depth = 8
iter = 16101, queue = 22251, heur = -8.0, depth = 8
iter = 16102, queue = 22252, heur = -8.0, depth = 8
iter = 16103, queue = 22253, heur = -8.0, depth = 8
iter = 16104, queue = 22253, heur = -8.0, depth = 8
iter = 16105, queue = 22254, heur = -8.0, depth = 8
iter = 16106, queue = 22255, heur = -8.0, depth = 8
iter = 16107, queue = 22255, heur = -8.0, depth = 8
iter = 16108, queue = 22258, heur = -8.0, depth = 8
iter = 16109, queue = 22261, heur = -8.0, depth = 8
```

```
iter = 16110, queue = 22262, heur = -8.0, depth = 8
iter = 16111, queue = 22264, heur = -8.0, depth = 8
iter = 16112, queue = 22263, heur = -8.0, depth = 8
iter = 16113, queue = 22264, heur = -8.0, depth = 8
iter = 16114, queue = 22267, heur = -8.0, depth = 8
iter = 16115, queue = 22266, heur = -8.0, depth = 8
iter = 16116, queue = 22267, heur = -8.0, depth = 8
iter = 16117, queue = 22268, heur = -8.0, depth = 8
iter = 16118, queue = 22270, heur = -8.0, depth = 8
iter = 16119, queue = 22271, heur = -8.0, depth = 8
iter = 16120, queue = 22274, heur = -8.0, depth = 8
iter = 16121, queue = 22275, heur = -8.0, depth = 8
iter = 16122, queue = 22278, heur = -8.0, depth = 8
iter = 16123, queue = 22279, heur = -8.0, depth = 10
iter = 16124, queue = 22280, heur = -8.0, depth = 8
iter = 16125, queue = 22281, heur = -8.0, depth = 8
iter = 16126, queue = 22281, heur = -8.0, depth = 8
iter = 16127, queue = 22282, heur = -8.0, depth = 8
iter = 16128, queue = 22285, heur = -8.0, depth = 8
iter = 16129, queue = 22284, heur = -8.0, depth = 8
iter = 16130, queue = 22285, heur = -8.0, depth = 8
iter = 16131, queue = 22285, heur = -8.0, depth = 8
iter = 16132, queue = 22288, heur = -8.0, depth = 8
iter = 16133, queue = 22288, heur = -8.0, depth = 8
iter = 16134, queue = 22289, heur = -8.0, depth = 8
iter = 16135, queue = 22290, heur = -8.0, depth = 8
iter = 16136, queue = 22291, heur = -8.0, depth = 8
iter = 16137, queue = 22292, heur = -8.0, depth = 8
iter = 16138, queue = 22295, heur = -8.0, depth = 8
iter = 16139, queue = 22298, heur = -8.0, depth = 8
iter = 16140, queue = 22299, heur = -8.0, depth = 8
iter = 16141, queue = 22298, heur = -8.0, depth = 8
iter = 16142, queue = 22300, heur = -8.0, depth = 9
iter = 16143, queue = 22299, heur = -8.0, depth = 8
iter = 16144, queue = 22300, heur = -8.0, depth = 8
iter = 16145, queue = 22301, heur = -8.0, depth = 8
iter = 16146, queue = 22301, heur = -8.0, depth = 8
iter = 16147, queue = 22302, heur = -8.0, depth = 8
iter = 16148, queue = 22305, heur = -8.0, depth = 8
iter = 16149, queue = 22306, heur = -8.0, depth = 8
iter = 16150, queue = 22308, heur = -8.0, depth = 8
iter = 16151, queue = 22309, heur = -8.0, depth = 8
iter = 16152, queue = 22310, heur = -8.0, depth = 8
iter = 16153, queue = 22309, heur = -8.0, depth = 8
iter = 16154, queue = 22309, heur = -8.0, depth = 8
iter = 16155, queue = 22308, heur = -8.0, depth = 8
iter = 16156, queue = 22307, heur = -8.0, depth = 8
iter = 16157, queue = 22310, heur = -8.0, depth = 8
iter = 16158, queue = 22309, heur = -8.0, depth = 8
iter = 16159, queue = 22309, heur = -8.0, depth = 8
iter = 16160, queue = 22308, heur = -8.0, depth = 8
iter = 16161, queue = 22307, heur = -8.0, depth = 8
iter = 16162, queue = 22310, heur = -8.0, depth = 8
iter = 16163, queue = 22311, heur = -8.0, depth = 8
iter = 16164, queue = 22312, heur = -8.0, depth = 9
iter = 16165, queue = 22312, heur = -8.0, depth = 8
iter = 16166, queue = 22311, heur = -8.0, depth = 8
iter = 16167, queue = 22313, heur = -8.0, depth = 8
iter = 16168, queue = 22313, heur = -8.0, depth = 8
```

```
iter = 16169, queue = 22314, heur = -8.0, depth = 8
iter = 16170, queue = 22315, heur = -8.0, depth = 8
iter = 16171, queue = 22316, heur = -8.0, depth = 8
iter = 16172, queue = 22319, heur = -8.0, depth = 8
iter = 16173, queue = 22320, heur = -8.0, depth = 8
iter = 16174, queue = 22322, heur = -8.0, depth = 8
iter = 16175, queue = 22325, heur = -8.0, depth = 8
iter = 16176, queue = 22325, heur = -8.0, depth = 8
iter = 16177, queue = 22326, heur = -8.0, depth = 8
iter = 16178, queue = 22327, heur = -8.0, depth = 8
iter = 16179, queue = 22328, heur = -8.0, depth = 8
iter = 16180, queue = 22331, heur = -8.0, depth = 8
iter = 16181, queue = 22331, heur = -8.0, depth = 8
iter = 16182, queue = 22332, heur = -8.0, depth = 8
iter = 16183, queue = 22333, heur = -8.0, depth = 8
iter = 16184, queue = 22335, heur = -8.0, depth = 8
iter = 16185, queue = 22337, heur = -8.0, depth = 8
iter = 16186, queue = 22339, heur = -8.0, depth = 8
iter = 16187, queue = 22342, heur = -8.0, depth = 10
iter = 16188, queue = 22342, heur = -8.0, depth = 8
iter = 16189, queue = 22342, heur = -8.0, depth = 8
iter = 16190, queue = 22343, heur = -8.0, depth = 8
iter = 16191, queue = 22346, heur = -8.0, depth = 8
iter = 16192, queue = 22345, heur = -8.0, depth = 8
iter = 16193, queue = 22344, heur = -8.0, depth = 8
iter = 16194, queue = 22343, heur = -8.0, depth = 8
iter = 16195, queue = 22342, heur = -8.0, depth = 8
iter = 16196, queue = 22343, heur = -8.0, depth = 8
iter = 16197, queue = 22342, heur = -8.0, depth = 8
iter = 16198, queue = 22341, heur = -8.0, depth = 8
iter = 16199, queue = 22344, heur = -8.0, depth = 8
iter = 16200, queue = 22345, heur = -8.0, depth = 8
iter = 16201, queue = 22347, heur = -8.0, depth = 8
iter = 16202, queue = 22346, heur = -8.0, depth = 9
iter = 16203, queue = 22347, heur = -8.0, depth = 8
iter = 16204, queue = 22350, heur = -8.0, depth = 8
iter = 16205, queue = 22350, heur = -8.0, depth = 8
iter = 16206, queue = 22351, heur = -8.0, depth = 8
iter = 16207, queue = 22352, heur = -8.0, depth = 8
iter = 16208, queue = 22352, heur = -8.0, depth = 8
iter = 16209, queue = 22353, heur = -8.0, depth = 8
iter = 16210, queue = 22356, heur = -8.0, depth = 8
iter = 16211, queue = 22355, heur = -8.0, depth = 8
iter = 16212, queue = 22356, heur = -8.0, depth = 8
iter = 16213, queue = 22359, heur = -8.0, depth = 8
iter = 16214, queue = 22358, heur = -8.0, depth = 8
iter = 16215, queue = 22358, heur = -8.0, depth = 8
iter = 16216, queue = 22359, heur = -8.0, depth = 8
iter = 16217, queue = 22362, heur = -8.0, depth = 8
iter = 16218, queue = 22363, heur = -8.0, depth = 8
iter = 16219, queue = 22364, heur = -8.0, depth = 8
iter = 16220, queue = 22366, heur = -8.0, depth = 8
iter = 16221, queue = 22367, heur = -8.0, depth = 8
iter = 16222, queue = 22368, heur = -8.0, depth = 8
iter = 16223, queue = 22369, heur = -8.0, depth = 8
iter = 16224, queue = 22372, heur = -8.0, depth = 8
iter = 16225, queue = 22373, heur = -8.0, depth = 8
iter = 16226, queue = 22374, heur = -8.0, depth = 8
iter = 16227, queue = 22375, heur = -8.0, depth = 8
```

```
iter = 16228, queue = 22376, heur = -8.0, depth = 9
iter = 16229, queue = 22379, heur = -8.0, depth = 8
iter = 16230, queue = 22380, heur = -8.0, depth = 8
iter = 16231, queue = 22381, heur = -8.0, depth = 8
iter = 16232, queue = 22382, heur = -8.0, depth = 8
iter = 16233, queue = 22384, heur = -8.0, depth = 8
iter = 16234, queue = 22385, heur = -8.0, depth = 8
iter = 16235, queue = 22388, heur = -8.0, depth = 8
iter = 16236, queue = 22391, heur = -8.0, depth = 8
iter = 16237, queue = 22392, heur = -8.0, depth = 9
iter = 16238, queue = 22393, heur = -8.0, depth = 8
iter = 16239, queue = 22395, heur = -8.0, depth = 8
iter = 16240, queue = 22394, heur = -8.0, depth = 8
iter = 16241, queue = 22395, heur = -8.0, depth = 8
iter = 16242, queue = 22398, heur = -8.0, depth = 8
iter = 16243, queue = 22399, heur = -8.0, depth = 9
iter = 16244, queue = 22402, heur = -8.0, depth = 8
iter = 16245, queue = 22402, heur = -8.0, depth = 8
iter = 16246, queue = 22402, heur = -8.0, depth = 8
iter = 16247, queue = 22403, heur = -8.0, depth = 8
iter = 16248, queue = 22404, heur = -8.0, depth = 8
iter = 16249, queue = 22407, heur = -8.0, depth = 8
iter = 16250, queue = 22408, heur = -8.0, depth = 8
iter = 16251, queue = 22409, heur = -8.0, depth = 8
iter = 16252, queue = 22409, heur = -8.0, depth = 8
iter = 16253, queue = 22410, heur = -8.0, depth = 8
iter = 16254, queue = 22411, heur = -8.0, depth = 9
iter = 16255, queue = 22412, heur = -8.0, depth = 8
iter = 16256, queue = 22411, heur = -8.0, depth = 8
iter = 16257, queue = 22414, heur = -8.0, depth = 8
iter = 16258, queue = 22414, heur = -8.0, depth = 8
iter = 16259, queue = 22415, heur = -8.0, depth = 8
iter = 16260, queue = 22416, heur = -8.0, depth = 8
iter = 16261, queue = 22416, heur = -8.0, depth = 8
iter = 16262, queue = 22419, heur = -8.0, depth = 8
iter = 16263, queue = 22418, heur = -8.0, depth = 8
iter = 16264, queue = 22418, heur = -8.0, depth = 8
iter = 16265, queue = 22418, heur = -8.0, depth = 8
iter = 16266, queue = 22419, heur = -8.0, depth = 9
iter = 16267, queue = 22420, heur = -8.0, depth = 8
iter = 16268, queue = 22421, heur = -8.0, depth = 8
iter = 16269, queue = 22421, heur = -8.0, depth = 8
iter = 16270, queue = 22421, heur = -8.0, depth = 8
iter = 16271, queue = 22420, heur = -8.0, depth = 8
iter = 16272, queue = 22420, heur = -8.0, depth = 8
iter = 16273, queue = 22422, heur = -8.0, depth = 8
iter = 16274, queue = 22422, heur = -8.0, depth = 8
iter = 16275, queue = 22425, heur = -8.0, depth = 8
iter = 16276, queue = 22424, heur = -8.0, depth = 8
iter = 16277, queue = 22425, heur = -8.0, depth = 8
iter = 16278, queue = 22426, heur = -8.0, depth = 8
iter = 16279, queue = 22426, heur = -8.0, depth = 8
iter = 16280, queue = 22428, heur = -8.0, depth = 8
iter = 16281, queue = 22429, heur = -8.0, depth = 8
iter = 16282, queue = 22428, heur = -8.0, depth = 8
iter = 16283, queue = 22431, heur = -8.0, depth = 8
iter = 16284, queue = 22432, heur = -8.0, depth = 8
iter = 16285, queue = 22433, heur = -8.0, depth = 8
iter = 16286, queue = 22433, heur = -8.0, depth = 8
```

```
iter = 16287, queue = 22432, heur = -8.0, depth = 9
iter = 16288, queue = 22433, heur = -8.0, depth = 8
iter = 16289, queue = 22434, heur = -8.0, depth = 8
iter = 16290, queue = 22434, heur = -8.0, depth = 8
iter = 16291, queue = 22435, heur = -8.0, depth = 8
iter = 16292, queue = 22435, heur = -8.0, depth = 8
iter = 16293, queue = 22436, heur = -8.0, depth = 8
iter = 16294, queue = 22438, heur = -8.0, depth = 8
iter = 16295, queue = 22440, heur = -8.0, depth = 8
iter = 16296, queue = 22441, heur = -8.0, depth = 8
iter = 16297, queue = 22442, heur = -8.0, depth = 8
iter = 16298, queue = 22443, heur = -8.0, depth = 8
iter = 16299, queue = 22444, heur = -8.0, depth = 8
iter = 16300, queue = 22444, heur = -8.0, depth = 8
iter = 16301, queue = 22445, heur = -8.0, depth = 8
iter = 16302, queue = 22446, heur = -8.0, depth = 8
iter = 16303, queue = 22447, heur = -8.0, depth = 8
iter = 16304, queue = 22447, heur = -8.0, depth = 8
iter = 16305, queue = 22448, heur = -8.0, depth = 8
iter = 16306, queue = 22451, heur = -8.0, depth = 8
iter = 16307, queue = 22450, heur = -8.0, depth = 8
iter = 16308, queue = 22450, heur = -8.0, depth = 8
iter = 16309, queue = 22453, heur = -8.0, depth = 8
iter = 16310, queue = 22455, heur = -8.0, depth = 8
iter = 16311, queue = 22456, heur = -8.0, depth = 8
iter = 16312, queue = 22456, heur = -8.0, depth = 8
iter = 16313, queue = 22456, heur = -8.0, depth = 8
iter = 16314, queue = 22459, heur = -8.0, depth = 8
iter = 16315, queue = 22460, heur = -8.0, depth = 8
iter = 16316, queue = 22460, heur = -8.0, depth = 8
iter = 16317, queue = 22461, heur = -8.0, depth = 8
iter = 16318, queue = 22462, heur = -8.0, depth = 8
iter = 16319, queue = 22462, heur = -8.0, depth = 8
iter = 16320, queue = 22461, heur = -8.0, depth = 8
iter = 16321, queue = 22460, heur = -8.0, depth = 8
iter = 16322, queue = 22461, heur = -8.0, depth = 8
iter = 16323, queue = 22462, heur = -8.0, depth = 8
iter = 16324, queue = 22463, heur = -8.0, depth = 8
iter = 16325, queue = 22463, heur = -8.0, depth = 8
iter = 16326, queue = 22463, heur = -8.0, depth = 8
iter = 16327, queue = 22466, heur = -8.0, depth = 8
iter = 16328, queue = 22467, heur = -8.0, depth = 8
iter = 16329, queue = 22468, heur = -8.0, depth = 9
iter = 16330, queue = 22470, heur = -8.0, depth = 8
iter = 16331, queue = 22471, heur = -8.0, depth = 8
iter = 16332, queue = 22470, heur = -8.0, depth = 9
iter = 16333, queue = 22471, heur = -8.0, depth = 8
iter = 16334, queue = 22473, heur = -8.0, depth = 8
iter = 16335, queue = 22472, heur = -8.0, depth = 8
iter = 16336, queue = 22475, heur = -8.0, depth = 8
iter = 16337, queue = 22478, heur = -8.0, depth = 8
iter = 16338, queue = 22477, heur = -8.0, depth = 8
iter = 16339, queue = 22477, heur = -8.0, depth = 8
iter = 16340, queue = 22476, heur = -8.0, depth = 8
iter = 16341, queue = 22475, heur = -8.0, depth = 8
iter = 16342, queue = 22476, heur = -8.0, depth = 8
iter = 16343, queue = 22478, heur = -8.0, depth = 8
iter = 16344, queue = 22479, heur = -8.0, depth = 8
iter = 16345, queue = 22478, heur = -8.0, depth = 8
```

```
iter = 16346, queue = 22480, heur = -8.0, depth = 8
iter = 16347, queue = 22481, heur = -8.0, depth = 8
iter = 16348, queue = 22483, heur = -8.0, depth = 8
iter = 16349, queue = 22484, heur = -8.0, depth = 8
iter = 16350, queue = 22484, heur = -8.0, depth = 8
iter = 16351, queue = 22487, heur = -8.0, depth = 8
iter = 16352, queue = 22487, heur = -8.0, depth = 8
iter = 16353, queue = 22487, heur = -8.0, depth = 8
iter = 16354, queue = 22490, heur = -8.0, depth = 8
iter = 16355, queue = 22491, heur = -8.0, depth = 8
iter = 16356, queue = 22491, heur = -8.0, depth = 8
iter = 16357, queue = 22492, heur = -8.0, depth = 8
iter = 16358, queue = 22492, heur = -8.0, depth = 8
iter = 16359, queue = 22493, heur = -8.0, depth = 8
iter = 16360, queue = 22494, heur = -8.0, depth = 8
iter = 16361, queue = 22494, heur = -8.0, depth = 8
iter = 16362, queue = 22496, heur = -8.0, depth = 8
iter = 16363, queue = 22499, heur = -8.0, depth = 8
iter = 16364, queue = 22502, heur = -8.0, depth = 8
iter = 16365, queue = 22505, heur = -8.0, depth = 8
iter = 16366, queue = 22506, heur = -8.0, depth = 8
iter = 16367, queue = 22508, heur = -8.0, depth = 8
iter = 16368, queue = 22509, heur = -8.0, depth = 8
iter = 16369, queue = 22510, heur = -8.0, depth = 8
iter = 16370, queue = 22513, heur = -8.0, depth = 8
iter = 16371, queue = 22516, heur = -8.0, depth = 8
iter = 16372, queue = 22517, heur = -8.0, depth = 8
iter = 16373, queue = 22519, heur = -8.0, depth = 8
iter = 16374, queue = 22520, heur = -8.0, depth = 8
iter = 16375, queue = 22521, heur = -8.0, depth = 8
iter = 16376, queue = 22524, heur = -8.0, depth = 8
iter = 16377, queue = 22527, heur = -8.0, depth = 8
iter = 16378, queue = 22528, heur = -8.0, depth = 8
iter = 16379, queue = 22528, heur = -8.0, depth = 8
iter = 16380, queue = 22530, heur = -8.0, depth = 8
iter = 16381, queue = 22531, heur = -8.0, depth = 8
iter = 16382, queue = 22532, heur = -8.0, depth = 8
iter = 16383, queue = 22532, heur = -8.0, depth = 8
iter = 16384, queue = 22533, heur = -8.0, depth = 8
iter = 16385, queue = 22536, heur = -8.0, depth = 8
iter = 16386, queue = 22538, heur = -8.0, depth = 8
iter = 16387, queue = 22541, heur = -8.0, depth = 8
iter = 16388, queue = 22542, heur = -8.0, depth = 8
iter = 16389, queue = 22543, heur = -8.0, depth = 8
iter = 16390, queue = 22546, heur = -8.0, depth = 8
iter = 16391, queue = 22545, heur = -8.0, depth = 8
iter = 16392, queue = 22546, heur = -8.0, depth = 8
iter = 16393, queue = 22547, heur = -8.0, depth = 8
iter = 16394, queue = 22548, heur = -8.0, depth = 8
iter = 16395, queue = 22549, heur = -8.0, depth = 8
iter = 16396, queue = 22552, heur = -8.0, depth = 8
iter = 16397, queue = 22552, heur = -8.0, depth = 8
iter = 16398, queue = 22555, heur = -8.0, depth = 8
iter = 16399, queue = 22558, heur = -8.0, depth = 8
iter = 16400, queue = 22557, heur = -8.0, depth = 8
iter = 16401, queue = 22558, heur = -8.0, depth = 8
iter = 16402, queue = 22561, heur = -8.0, depth = 8
iter = 16403, queue = 22562, heur = -8.0, depth = 8
iter = 16404, queue = 22562, heur = -8.0, depth = 8
```

```
iter = 16405, queue = 22563, heur = -8.0, depth = 8
iter = 16406, queue = 22564, heur = -8.0, depth = 8
iter = 16407, queue = 22563, heur = -8.0, depth = 8
iter = 16408, queue = 22563, heur = -8.0, depth = 8
iter = 16409, queue = 22565, heur = -8.0, depth = 8
iter = 16410, queue = 22565, heur = -8.0, depth = 9
iter = 16411, queue = 22566, heur = -8.0, depth = 8
iter = 16412, queue = 22569, heur = -8.0, depth = 8
iter = 16413, queue = 22572, heur = -8.0, depth = 8
iter = 16414, queue = 22572, heur = -8.0, depth = 8
iter = 16415, queue = 22573, heur = -8.0, depth = 8
iter = 16416, queue = 22575, heur = -8.0, depth = 8
iter = 16417, queue = 22574, heur = -8.0, depth = 8
iter = 16418, queue = 22576, heur = -8.0, depth = 8
iter = 16419, queue = 22579, heur = -8.0, depth = 8
iter = 16420, queue = 22579, heur = -8.0, depth = 8
iter = 16421, queue = 22580, heur = -8.0, depth = 8
iter = 16422, queue = 22581, heur = -8.0, depth = 8
iter = 16423, queue = 22582, heur = -8.0, depth = 8
iter = 16424, queue = 22581, heur = -8.0, depth = 8
iter = 16425, queue = 22583, heur = -8.0, depth = 8
iter = 16426, queue = 22582, heur = -8.0, depth = 8
iter = 16427, queue = 22583, heur = -8.0, depth = 8
iter = 16428, queue = 22584, heur = -8.0, depth = 8
iter = 16429, queue = 22585, heur = -8.0, depth = 8
iter = 16430, queue = 22588, heur = -8.0, depth = 8
iter = 16431, queue = 22587, heur = -8.0, depth = 8
iter = 16432, queue = 22586, heur = -8.0, depth = 8
iter = 16433, queue = 22587, heur = -8.0, depth = 10
iter = 16434, queue = 22588, heur = -8.0, depth = 8
iter = 16435, queue = 22589, heur = -8.0, depth = 8
iter = 16436, queue = 22590, heur = -8.0, depth = 8
iter = 16437, queue = 22591, heur = -8.0, depth = 9
iter = 16438, queue = 22591, heur = -8.0, depth = 8
iter = 16439, queue = 22594, heur = -8.0, depth = 8
iter = 16440, queue = 22595, heur = -8.0, depth = 8
iter = 16441, queue = 22594, heur = -8.0, depth = 8
iter = 16442, queue = 22597, heur = -8.0, depth = 8
iter = 16443, queue = 22600, heur = -8.0, depth = 8
iter = 16444, queue = 22601, heur = -8.0, depth = 8
iter = 16445, queue = 22602, heur = -8.0, depth = 8
iter = 16446, queue = 22603, heur = -8.0, depth = 8
iter = 16447, queue = 22604, heur = -8.0, depth = 8
iter = 16448, queue = 22604, heur = -8.0, depth = 10
iter = 16449, queue = 22605, heur = -8.0, depth = 8
iter = 16450, queue = 22606, heur = -8.0, depth = 8
iter = 16451, queue = 22605, heur = -8.0, depth = 8
iter = 16452, queue = 22608, heur = -8.0, depth = 8
iter = 16453, queue = 22609, heur = -8.0, depth = 8
iter = 16454, queue = 22612, heur = -8.0, depth = 8
iter = 16455, queue = 22615, heur = -8.0, depth = 8
iter = 16456, queue = 22616, heur = -8.0, depth = 8
iter = 16457, queue = 22616, heur = -8.0, depth = 8
iter = 16458, queue = 22617, heur = -8.0, depth = 8
iter = 16459, queue = 22618, heur = -8.0, depth = 8
iter = 16460, queue = 22620, heur = -8.0, depth = 8
iter = 16461, queue = 22621, heur = -8.0, depth = 8
iter = 16462, queue = 22620, heur = -8.0, depth = 8
iter = 16463, queue = 22621, heur = -8.0, depth = 8
```

```
iter = 16464, queue = 22621, heur = -8.0, depth = 8
iter = 16465, queue = 22622, heur = -8.0, depth = 8
iter = 16466, queue = 22624, heur = -8.0, depth = 8
iter = 16467, queue = 22625, heur = -8.0, depth = 8
iter = 16468, queue = 22626, heur = -8.0, depth = 8
iter = 16469, queue = 22629, heur = -8.0, depth = 8
iter = 16470, queue = 22630, heur = -8.0, depth = 8
iter = 16471, queue = 22632, heur = -8.0, depth = 8
iter = 16472, queue = 22635, heur = -8.0, depth = 8
iter = 16473, queue = 22638, heur = -8.0, depth = 8
iter = 16474, queue = 22638, heur = -8.0, depth = 8
iter = 16475, queue = 22639, heur = -8.0, depth = 8
iter = 16476, queue = 22640, heur = -8.0, depth = 8
iter = 16477, queue = 22643, heur = -8.0, depth = 8
iter = 16478, queue = 22643, heur = -8.0, depth = 8
iter = 16479, queue = 22643, heur = -8.0, depth = 8
iter = 16480, queue = 22646, heur = -8.0, depth = 8
iter = 16481, queue = 22647, heur = -8.0, depth = 8
iter = 16482, queue = 22647, heur = -8.0, depth = 8
iter = 16483, queue = 22649, heur = -8.0, depth = 8
iter = 16484, queue = 22650, heur = -8.0, depth = 8
iter = 16485, queue = 22652, heur = -8.0, depth = 8
iter = 16486, queue = 22653, heur = -8.0, depth = 8
iter = 16487, queue = 22654, heur = -8.0, depth = 8
iter = 16488, queue = 22655, heur = -8.0, depth = 8
iter = 16489, queue = 22655, heur = -8.0, depth = 8
iter = 16490, queue = 22655, heur = -8.0, depth = 8
iter = 16491, queue = 22656, heur = -8.0, depth = 8
iter = 16492, queue = 22657, heur = -8.0, depth = 8
iter = 16493, queue = 22658, heur = -8.0, depth = 8
iter = 16494, queue = 22659, heur = -8.0, depth = 8
iter = 16495, queue = 22661, heur = -8.0, depth = 8
iter = 16496, queue = 22664, heur = -8.0, depth = 8
iter = 16497, queue = 22665, heur = -8.0, depth = 8
iter = 16498, queue = 22666, heur = -8.0, depth = 8
iter = 16499, queue = 22665, heur = -8.0, depth = 8
iter = 16500, queue = 22665, heur = -8.0, depth = 8
iter = 16501, queue = 22666, heur = -8.0, depth = 8
iter = 16502, queue = 22667, heur = -8.0, depth = 8
iter = 16503, queue = 22667, heur = -8.0, depth = 8
iter = 16504, queue = 22667, heur = -8.0, depth = 9
iter = 16505, queue = 22669, heur = -8.0, depth = 9
iter = 16506, queue = 22670, heur = -8.0, depth = 8
iter = 16507, queue = 22671, heur = -8.0, depth = 8
iter = 16508, queue = 22672, heur = -8.0, depth = 8
iter = 16509, queue = 22673, heur = -8.0, depth = 8
iter = 16510, queue = 22674, heur = -8.0, depth = 8
iter = 16511, queue = 22674, heur = -8.0, depth = 8
iter = 16512, queue = 22675, heur = -8.0, depth = 8
iter = 16513, queue = 22674, heur = -8.0, depth = 8
iter = 16514, queue = 22675, heur = -8.0, depth = 8
iter = 16515, queue = 22678, heur = -8.0, depth = 8
iter = 16516, queue = 22679, heur = -8.0, depth = 8
iter = 16517, queue = 22680, heur = -8.0, depth = 8
iter = 16518, queue = 22681, heur = -8.0, depth = 8
iter = 16519, queue = 22681, heur = -8.0, depth = 8
iter = 16520, queue = 22682, heur = -8.0, depth = 8
iter = 16521, queue = 22684, heur = -8.0, depth = 8
iter = 16522, queue = 22687, heur = -8.0, depth = 8
```

```
iter = 16523, queue = 22688, heur = -8.0, depth = 8
iter = 16524, queue = 22691, heur = -8.0, depth = 8
iter = 16525, queue = 22694, heur = -8.0, depth = 8
iter = 16526, queue = 22693, heur = -8.0, depth = 8
iter = 16527, queue = 22696, heur = -8.0, depth = 8
iter = 16528, queue = 22699, heur = -8.0, depth = 8
iter = 16529, queue = 22698, heur = -8.0, depth = 8
iter = 16530, queue = 22698, heur = -8.0, depth = 8
iter = 16531, queue = 22699, heur = -8.0, depth = 8
iter = 16532, queue = 22702, heur = -8.0, depth = 8
iter = 16533, queue = 22701, heur = -8.0, depth = 8
iter = 16534, queue = 22703, heur = -8.0, depth = 8
iter = 16535, queue = 22704, heur = -8.0, depth = 8
iter = 16536, queue = 22704, heur = -8.0, depth = 8
iter = 16537, queue = 22707, heur = -8.0, depth = 8
iter = 16538, queue = 22708, heur = -8.0, depth = 8
iter = 16539, queue = 22711, heur = -8.0, depth = 8
iter = 16540, queue = 22712, heur = -8.0, depth = 8
iter = 16541, queue = 22713, heur = -8.0, depth = 8
iter = 16542, queue = 22716, heur = -8.0, depth = 8
iter = 16543, queue = 22717, heur = -8.0, depth = 8
iter = 16544, queue = 22716, heur = -8.0, depth = 8
iter = 16545, queue = 22717, heur = -8.0, depth = 8
iter = 16546, queue = 22719, heur = -8.0, depth = 8
iter = 16547, queue = 22722, heur = -8.0, depth = 8
iter = 16548, queue = 22723, heur = -8.0, depth = 8
iter = 16549, queue = 22724, heur = -8.0, depth = 8
iter = 16550, queue = 22723, heur = -8.0, depth = 8
iter = 16551, queue = 22726, heur = -8.0, depth = 8
iter = 16552, queue = 22725, heur = -8.0, depth = 8
iter = 16553, queue = 22727, heur = -8.0, depth = 8
iter = 16554, queue = 22728, heur = -8.0, depth = 8
iter = 16555, queue = 22727, heur = -8.0, depth = 8
iter = 16556, queue = 22728, heur = -8.0, depth = 8
iter = 16557, queue = 22731, heur = -8.0, depth = 8
iter = 16558, queue = 22731, heur = -8.0, depth = 8
iter = 16559, queue = 22732, heur = -8.0, depth = 8
iter = 16560, queue = 22733, heur = -8.0, depth = 8
iter = 16561, queue = 22734, heur = -8.0, depth = 8
iter = 16562, queue = 22737, heur = -8.0, depth = 8
iter = 16563, queue = 22737, heur = -8.0, depth = 8
iter = 16564, queue = 22738, heur = -8.0, depth = 8
iter = 16565, queue = 22740, heur = -8.0, depth = 8
iter = 16566, queue = 22742, heur = -8.0, depth = 8
iter = 16567, queue = 22743, heur = -8.0, depth = 8
iter = 16568, queue = 22744, heur = -8.0, depth = 8
iter = 16569, queue = 22746, heur = -8.0, depth = 8
iter = 16570, queue = 22749, heur = -8.0, depth = 8
iter = 16571, queue = 22752, heur = -8.0, depth = 8
iter = 16572, queue = 22752, heur = -8.0, depth = 8
iter = 16573, queue = 22751, heur = -8.0, depth = 8
iter = 16574, queue = 22751, heur = -8.0, depth = 8
iter = 16575, queue = 22752, heur = -8.0, depth = 8
iter = 16576, queue = 22753, heur = -8.0, depth = 8
iter = 16577, queue = 22753, heur = -8.0, depth = 8
iter = 16578, queue = 22753, heur = -8.0, depth = 8
iter = 16579, queue = 22756, heur = -8.0, depth = 8
iter = 16580, queue = 22759, heur = -8.0, depth = 8
iter = 16581, queue = 22761, heur = -8.0, depth = 8
```

```
iter = 16582, queue = 22764, heur = -8.0, depth = 8
iter = 16583, queue = 22765, heur = -8.0, depth = 8
iter = 16584, queue = 22767, heur = -8.0, depth = 8
iter = 16585, queue = 22769, heur = -8.0, depth = 8
iter = 16586, queue = 22772, heur = -8.0, depth = 8
iter = 16587, queue = 22772, heur = -8.0, depth = 8
iter = 16588, queue = 22775, heur = -8.0, depth = 8
iter = 16589, queue = 22778, heur = -8.0, depth = 8
iter = 16590, queue = 22778, heur = -8.0, depth = 8
iter = 16591, queue = 22779, heur = -8.0, depth = 8
iter = 16592, queue = 22782, heur = -8.0, depth = 11
iter = 16593, queue = 22785, heur = -8.0, depth = 8
iter = 16594, queue = 22784, heur = -8.0, depth = 8
iter = 16595, queue = 22785, heur = -8.0, depth = 8
iter = 16596, queue = 22787, heur = -8.0, depth = 8
iter = 16597, queue = 22788, heur = -8.0, depth = 8
iter = 16598, queue = 22788, heur = -8.0, depth = 8
iter = 16599, queue = 22789, heur = -8.0, depth = 8
iter = 16600, queue = 22791, heur = -8.0, depth = 8
iter = 16601, queue = 22792, heur = -8.0, depth = 8
iter = 16602, queue = 22795, heur = -8.0, depth = 10
iter = 16603, queue = 22798, heur = -8.0, depth = 8
iter = 16604, queue = 22799, heur = -8.0, depth = 8
iter = 16605, queue = 22801, heur = -8.0, depth = 8
iter = 16606, queue = 22802, heur = -8.0, depth = 8
iter = 16607, queue = 22805, heur = -8.0, depth = 8
iter = 16608, queue = 22806, heur = -8.0, depth = 11
iter = 16609, queue = 22805, heur = -8.0, depth = 8
iter = 16610, queue = 22805, heur = -8.0, depth = 8
iter = 16611, queue = 22806, heur = -8.0, depth = 8
iter = 16612, queue = 22806, heur = -8.0, depth = 8
iter = 16613, queue = 22808, heur = -8.0, depth = 8
iter = 16614, queue = 22809, heur = -8.0, depth = 8
iter = 16615, queue = 22809, heur = -8.0, depth = 8
iter = 16616, queue = 22810, heur = -8.0, depth = 8
iter = 16617, queue = 22811, heur = -8.0, depth = 8
iter = 16618, queue = 22814, heur = -8.0, depth = 8
iter = 16619, queue = 22815, heur = -8.0, depth = 8
iter = 16620, queue = 22818, heur = -8.0, depth = 8
iter = 16621, queue = 22819, heur = -8.0, depth = 8
iter = 16622, queue = 22821, heur = -8.0, depth = 8
iter = 16623, queue = 22822, heur = -8.0, depth = 8
iter = 16624, queue = 22824, heur = -8.0, depth = 8
iter = 16625, queue = 22823, heur = -8.0, depth = 8
iter = 16626, queue = 22822, heur = -8.0, depth = 8
iter = 16627, queue = 22825, heur = -8.0, depth = 11
iter = 16628, queue = 22828, heur = -8.0, depth = 8
iter = 16629, queue = 22831, heur = -8.0, depth = 8
iter = 16630, queue = 22832, heur = -8.0, depth = 10
iter = 16631, queue = 22831, heur = -8.0, depth = 8
iter = 16632, queue = 22832, heur = -8.0, depth = 9
iter = 16633, queue = 22835, heur = -8.0, depth = 9
iter = 16634, queue = 22835, heur = -8.0, depth = 10
iter = 16635, queue = 22838, heur = -8.0, depth = 8
iter = 16636, queue = 22837, heur = -8.0, depth = 10
iter = 16637, queue = 22838, heur = -8.0, depth = 8
iter = 16638, queue = 22837, heur = -8.0, depth = 8
iter = 16639, queue = 22837, heur = -8.0, depth = 10
iter = 16640, queue = 22840, heur = -8.0, depth = 8
```

```
iter = 16641, queue = 22841, heur = -8.0, depth = 8
iter = 16642, queue = 22842, heur = -8.0, depth = 8
iter = 16643, queue = 22843, heur = -8.0, depth = 8
iter = 16644, queue = 22844, heur = -8.0, depth = 8
iter = 16645, queue = 22843, heur = -8.0, depth = 8
iter = 16646, queue = 22843, heur = -8.0, depth = 8
iter = 16647, queue = 22846, heur = -8.0, depth = 8
iter = 16648, queue = 22846, heur = -8.0, depth = 8
iter = 16649, queue = 22849, heur = -8.0, depth = 8
iter = 16650, queue = 22851, heur = -8.0, depth = 8
iter = 16651, queue = 22852, heur = -8.0, depth = 8
iter = 16652, queue = 22852, heur = -8.0, depth = 8
iter = 16653, queue = 22852, heur = -8.0, depth = 8
iter = 16654, queue = 22853, heur = -8.0, depth = 9
iter = 16655, queue = 22856, heur = -8.0, depth = 8
iter = 16656, queue = 22857, heur = -8.0, depth = 8
iter = 16657, queue = 22858, heur = -8.0, depth = 8
iter = 16658, queue = 22857, heur = -8.0, depth = 8
iter = 16659, queue = 22857, heur = -8.0, depth = 8
iter = 16660, queue = 22858, heur = -8.0, depth = 8
iter = 16661, queue = 22859, heur = -8.0, depth = 8
iter = 16662, queue = 22860, heur = -8.0, depth = 8
iter = 16663, queue = 22861, heur = -8.0, depth = 8
iter = 16664, queue = 22863, heur = -8.0, depth = 8
iter = 16665, queue = 22863, heur = -8.0, depth = 8
iter = 16666, queue = 22864, heur = -8.0, depth = 8
iter = 16667, queue = 22865, heur = -8.0, depth = 8
iter = 16668, queue = 22864, heur = -8.0, depth = 8
iter = 16669, queue = 22864, heur = -8.0, depth = 9
iter = 16670, queue = 22865, heur = -8.0, depth = 8
iter = 16671, queue = 22866, heur = -8.0, depth = 8
iter = 16672, queue = 22868, heur = -8.0, depth = 8
iter = 16673, queue = 22869, heur = -8.0, depth = 8
iter = 16674, queue = 22870, heur = -8.0, depth = 8
iter = 16675, queue = 22870, heur = -8.0, depth = 8
iter = 16676, queue = 22871, heur = -8.0, depth = 8
iter = 16677, queue = 22870, heur = -8.0, depth = 8
iter = 16678, queue = 22871, heur = -8.0, depth = 8
iter = 16679, queue = 22873, heur = -8.0, depth = 8
iter = 16680, queue = 22874, heur = -8.0, depth = 8
iter = 16681, queue = 22876, heur = -8.0, depth = 8
iter = 16682, queue = 22877, heur = -8.0, depth = 8
iter = 16683, queue = 22877, heur = -8.0, depth = 8
iter = 16684, queue = 22878, heur = -8.0, depth = 8
iter = 16685, queue = 22877, heur = -8.0, depth = 8
iter = 16686, queue = 22878, heur = -8.0, depth = 8
iter = 16687, queue = 22880, heur = -8.0, depth = 8
iter = 16688, queue = 22882, heur = -8.0, depth = 8
iter = 16689, queue = 22885, heur = -8.0, depth = 8
iter = 16690, queue = 22884, heur = -8.0, depth = 8
iter = 16691, queue = 22883, heur = -8.0, depth = 8
iter = 16692, queue = 22883, heur = -8.0, depth = 8
iter = 16693, queue = 22886, heur = -8.0, depth = 8
iter = 16694, queue = 22887, heur = -8.0, depth = 8
iter = 16695, queue = 22890, heur = -8.0, depth = 8
iter = 16696, queue = 22889, heur = -8.0, depth = 8
iter = 16697, queue = 22890, heur = -8.0, depth = 8
iter = 16698, queue = 22893, heur = -8.0, depth = 8
iter = 16699, queue = 22895, heur = -8.0, depth = 8
```

```
iter = 16700, queue = 22897, heur = -8.0, depth = 8
iter = 16701, queue = 22897, heur = -8.0, depth = 8
iter = 16702, queue = 22898, heur = -8.0, depth = 8
iter = 16703, queue = 22901, heur = -8.0, depth = 8
iter = 16704, queue = 22904, heur = -8.0, depth = 8
iter = 16705, queue = 22907, heur = -8.0, depth = 8
iter = 16706, queue = 22910, heur = -8.0, depth = 8
iter = 16707, queue = 22912, heur = -8.0, depth = 8
iter = 16708, queue = 22913, heur = -8.0, depth = 8
iter = 16709, queue = 22916, heur = -8.0, depth = 8
iter = 16710, queue = 22917, heur = -8.0, depth = 8
iter = 16711, queue = 22918, heur = -8.0, depth = 8
iter = 16712, queue = 22920, heur = -8.0, depth = 8
iter = 16713, queue = 22921, heur = -8.0, depth = 8
iter = 16714, queue = 22922, heur = -8.0, depth = 8
iter = 16715, queue = 22925, heur = -8.0, depth = 8
iter = 16716, queue = 22928, heur = -8.0, depth = 8
iter = 16717, queue = 22928, heur = -8.0, depth = 8
iter = 16718, queue = 22930, heur = -8.0, depth = 8
iter = 16719, queue = 22931, heur = -8.0, depth = 8
iter = 16720, queue = 22931, heur = -8.0, depth = 8
iter = 16721, queue = 22934, heur = -8.0, depth = 8
iter = 16722, queue = 22936, heur = -8.0, depth = 8
iter = 16723, queue = 22939, heur = -8.0, depth = 8
iter = 16724, queue = 22940, heur = -8.0, depth = 8
iter = 16725, queue = 22942, heur = -8.0, depth = 8
iter = 16726, queue = 22944, heur = -8.0, depth = 8
iter = 16727, queue = 22945, heur = -8.0, depth = 8
iter = 16728, queue = 22946, heur = -8.0, depth = 8
iter = 16729, queue = 22946, heur = -8.0, depth = 9
iter = 16730, queue = 22945, heur = -8.0, depth = 8
iter = 16731, queue = 22947, heur = -8.0, depth = 8
iter = 16732, queue = 22950, heur = -8.0, depth = 8
iter = 16733, queue = 22951, heur = -8.0, depth = 8
iter = 16734, queue = 22953, heur = -8.0, depth = 8
iter = 16735, queue = 22953, heur = -8.0, depth = 8
iter = 16736, queue = 22956, heur = -8.0, depth = 8
iter = 16737, queue = 22959, heur = -8.0, depth = 8
iter = 16738, queue = 22960, heur = -8.0, depth = 8
iter = 16739, queue = 22961, heur = -8.0, depth = 8
iter = 16740, queue = 22962, heur = -8.0, depth = 8
iter = 16741, queue = 22962, heur = -8.0, depth = 8
iter = 16742, queue = 22963, heur = -8.0, depth = 8
iter = 16743, queue = 22966, heur = -8.0, depth = 8
iter = 16744, queue = 22967, heur = -8.0, depth = 8
iter = 16745, queue = 22968, heur = -8.0, depth = 8
iter = 16746, queue = 22969, heur = -8.0, depth = 8
iter = 16747, queue = 22972, heur = -8.0, depth = 8
iter = 16748, queue = 22971, heur = -8.0, depth = 8
iter = 16749, queue = 22972, heur = -8.0, depth = 8
iter = 16750, queue = 22975, heur = -8.0, depth = 8
iter = 16751, queue = 22975, heur = -8.0, depth = 8
iter = 16752, queue = 22977, heur = -8.0, depth = 8
iter = 16753, queue = 22980, heur = -8.0, depth = 8
iter = 16754, queue = 22983, heur = -8.0, depth = 8
iter = 16755, queue = 22982, heur = -8.0, depth = 8
iter = 16756, queue = 22983, heur = -8.0, depth = 8
iter = 16757, queue = 22982, heur = -8.0, depth = 8
iter = 16758, queue = 22983, heur = -8.0, depth = 8
```

```
iter = 16759, queue = 22983, heur = -8.0, depth = 8
iter = 16760, queue = 22986, heur = -8.0, depth = 8
iter = 16761, queue = 22986, heur = -8.0, depth = 8
iter = 16762, queue = 22989, heur = -8.0, depth = 8
iter = 16763, queue = 22990, heur = -8.0, depth = 8
iter = 16764, queue = 22992, heur = -8.0, depth = 8
iter = 16765, queue = 22994, heur = -8.0, depth = 8
iter = 16766, queue = 22994, heur = -8.0, depth = 8
iter = 16767, queue = 22995, heur = -8.0, depth = 8
iter = 16768, queue = 22996, heur = -8.0, depth = 8
iter = 16769, queue = 22999, heur = -8.0, depth = 8
iter = 16770, queue = 22998, heur = -8.0, depth = 8
iter = 16771, queue = 22998, heur = -8.0, depth = 8
iter = 16772, queue = 22999, heur = -8.0, depth = 8
iter = 16773, queue = 22999, heur = -8.0, depth = 8
iter = 16774, queue = 23000, heur = -8.0, depth = 8
iter = 16775, queue = 23001, heur = -8.0, depth = 9
iter = 16776, queue = 23002, heur = -8.0, depth = 10
iter = 16777, queue = 23002, heur = -8.0, depth = 8
iter = 16778, queue = 23002, heur = -8.0, depth = 8
iter = 16779, queue = 23003, heur = -8.0, depth = 10
iter = 16780, queue = 23004, heur = -8.0, depth = 8
iter = 16781, queue = 23006, heur = -8.0, depth = 8
iter = 16782, queue = 23008, heur = -8.0, depth = 8
iter = 16783, queue = 23009, heur = -8.0, depth = 8
iter = 16784, queue = 23010, heur = -8.0, depth = 8
iter = 16785, queue = 23011, heur = -8.0, depth = 8
iter = 16786, queue = 23013, heur = -8.0, depth = 8
iter = 16787, queue = 23016, heur = -8.0, depth = 8
iter = 16788, queue = 23018, heur = -8.0, depth = 8
iter = 16789, queue = 23019, heur = -8.0, depth = 8
iter = 16790, queue = 23022, heur = -8.0, depth = 8
iter = 16791, queue = 23024, heur = -8.0, depth = 8
iter = 16792, queue = 23025, heur = -8.0, depth = 8
iter = 16793, queue = 23026, heur = -8.0, depth = 8
iter = 16794, queue = 23027, heur = -8.0, depth = 8
iter = 16795, queue = 23028, heur = -8.0, depth = 8
iter = 16796, queue = 23030, heur = -8.0, depth = 8
iter = 16797, queue = 23031, heur = -8.0, depth = 8
iter = 16798, queue = 23032, heur = -8.0, depth = 8
iter = 16799, queue = 23032, heur = -8.0, depth = 8
iter = 16800, queue = 23033, heur = -8.0, depth = 8
iter = 16801, queue = 23032, heur = -8.0, depth = 8
iter = 16802, queue = 23031, heur = -8.0, depth = 8
iter = 16803, queue = 23032, heur = -8.0, depth = 8
iter = 16804, queue = 23034, heur = -8.0, depth = 8
iter = 16805, queue = 23035, heur = -8.0, depth = 8
iter = 16806, queue = 23035, heur = -8.0, depth = 9
iter = 16807, queue = 23036, heur = -8.0, depth = 8
iter = 16808, queue = 23039, heur = -8.0, depth = 8
iter = 16809, queue = 23040, heur = -8.0, depth = 8
iter = 16810, queue = 23041, heur = -8.0, depth = 8
iter = 16811, queue = 23041, heur = -8.0, depth = 8
iter = 16812, queue = 23042, heur = -8.0, depth = 8
iter = 16813, queue = 23045, heur = -8.0, depth = 8
iter = 16814, queue = 23047, heur = -8.0, depth = 8
iter = 16815, queue = 23050, heur = -8.0, depth = 8
iter = 16816, queue = 23053, heur = -8.0, depth = 8
iter = 16817, queue = 23053, heur = -8.0, depth = 8
```

```
iter = 16818, queue = 23056, heur = -8.0, depth = 8
iter = 16819, queue = 23056, heur = -8.0, depth = 8
iter = 16820, queue = 23057, heur = -8.0, depth = 8
iter = 16821, queue = 23058, heur = -8.0, depth = 8
iter = 16822, queue = 23058, heur = -8.0, depth = 8
iter = 16823, queue = 23059, heur = -8.0, depth = 8
iter = 16824, queue = 23062, heur = -8.0, depth = 8
iter = 16825, queue = 23063, heur = -8.0, depth = 8
iter = 16826, queue = 23063, heur = -8.0, depth = 8
iter = 16827, queue = 23063, heur = -8.0, depth = 8
iter = 16828, queue = 23065, heur = -8.0, depth = 8
iter = 16829, queue = 23066, heur = -8.0, depth = 8
iter = 16830, queue = 23066, heur = -8.0, depth = 8
iter = 16831, queue = 23067, heur = -8.0, depth = 8
iter = 16832, queue = 23067, heur = -8.0, depth = 8
iter = 16833, queue = 23068, heur = -8.0, depth = 11
iter = 16834, queue = 23067, heur = -8.0, depth = 8
iter = 16835, queue = 23068, heur = -8.0, depth = 8
iter = 16836, queue = 23069, heur = -8.0, depth = 8
iter = 16837, queue = 23070, heur = -8.0, depth = 8
iter = 16838, queue = 23071, heur = -8.0, depth = 8
iter = 16839, queue = 23074, heur = -8.0, depth = 8
iter = 16840, queue = 23074, heur = -8.0, depth = 8
iter = 16841, queue = 23077, heur = -8.0, depth = 8
iter = 16842, queue = 23078, heur = -8.0, depth = 8
iter = 16843, queue = 23079, heur = -8.0, depth = 8
iter = 16844, queue = 23078, heur = -8.0, depth = 8
iter = 16845, queue = 23079, heur = -8.0, depth = 8
iter = 16846, queue = 23079, heur = -8.0, depth = 8
iter = 16847, queue = 23079, heur = -8.0, depth = 8
iter = 16848, queue = 23080, heur = -8.0, depth = 8
iter = 16849, queue = 23083, heur = -8.0, depth = 8
iter = 16850, queue = 23085, heur = -8.0, depth = 8
iter = 16851, queue = 23087, heur = -8.0, depth = 8
iter = 16852, queue = 23089, heur = -8.0, depth = 8
iter = 16853, queue = 23090, heur = -8.0, depth = 8
iter = 16854, queue = 23091, heur = -8.0, depth = 8
iter = 16855, queue = 23090, heur = -8.0, depth = 8
iter = 16856, queue = 23090, heur = -8.0, depth = 8
iter = 16857, queue = 23090, heur = -8.0, depth = 8
iter = 16858, queue = 23090, heur = -8.0, depth = 8
iter = 16859, queue = 23091, heur = -8.0, depth = 8
iter = 16860, queue = 23090, heur = -8.0, depth = 8
iter = 16861, queue = 23089, heur = -8.0, depth = 8
iter = 16862, queue = 23089, heur = -8.0, depth = 8
iter = 16863, queue = 23092, heur = -8.0, depth = 8
iter = 16864, queue = 23093, heur = -8.0, depth = 8
iter = 16865, queue = 23094, heur = -8.0, depth = 8
iter = 16866, queue = 23095, heur = -8.0, depth = 8
iter = 16867, queue = 23096, heur = -8.0, depth = 8
iter = 16868, queue = 23097, heur = -8.0, depth = 8
iter = 16869, queue = 23096, heur = -8.0, depth = 8
iter = 16870, queue = 23097, heur = -8.0, depth = 8
iter = 16871, queue = 23098, heur = -8.0, depth = 8
iter = 16872, queue = 23099, heur = -8.0, depth = 8
iter = 16873, queue = 23099, heur = -8.0, depth = 8
iter = 16874, queue = 23098, heur = -8.0, depth = 8
iter = 16875, queue = 23097, heur = -8.0, depth = 8
iter = 16876, queue = 23098, heur = -8.0, depth = 8
```

```
iter = 16877, queue = 23098, heur = -8.0, depth = 8
iter = 16878, queue = 23097, heur = -8.0, depth = 8
iter = 16879, queue = 23098, heur = -8.0, depth = 8
iter = 16880, queue = 23099, heur = -8.0, depth = 8
iter = 16881, queue = 23098, heur = -8.0, depth = 8
iter = 16882, queue = 23099, heur = -8.0, depth = 8
iter = 16883, queue = 23100, heur = -8.0, depth = 9
iter = 16884, queue = 23103, heur = -8.0, depth = 8
iter = 16885, queue = 23106, heur = -8.0, depth = 8
iter = 16886, queue = 23105, heur = -8.0, depth = 8
iter = 16887, queue = 23107, heur = -8.0, depth = 8
iter = 16888, queue = 23110, heur = -8.0, depth = 8
iter = 16889, queue = 23110, heur = -8.0, depth = 8
iter = 16890, queue = 23109, heur = -8.0, depth = 8
iter = 16891, queue = 23112, heur = -8.0, depth = 8
iter = 16892, queue = 23113, heur = -8.0, depth = 8
iter = 16893, queue = 23116, heur = -8.0, depth = 8
iter = 16894, queue = 23116, heur = -8.0, depth = 8
iter = 16895, queue = 23117, heur = -8.0, depth = 8
iter = 16896, queue = 23119, heur = -8.0, depth = 8
iter = 16897, queue = 23122, heur = -8.0, depth = 8
iter = 16898, queue = 23124, heur = -8.0, depth = 8
iter = 16899, queue = 23127, heur = -8.0, depth = 8
iter = 16900, queue = 23127, heur = -8.0, depth = 8
iter = 16901, queue = 23127, heur = -8.0, depth = 8
iter = 16902, queue = 23127, heur = -8.0, depth = 8
iter = 16903, queue = 23127, heur = -8.0, depth = 8
iter = 16904, queue = 23128, heur = -8.0, depth = 8
iter = 16905, queue = 23131, heur = -8.0, depth = 8
iter = 16906, queue = 23132, heur = -8.0, depth = 8
iter = 16907, queue = 23135, heur = -8.0, depth = 8
iter = 16908, queue = 23136, heur = -8.0, depth = 8
iter = 16909, queue = 23139, heur = -8.0, depth = 8
iter = 16910, queue = 23142, heur = -8.0, depth = 8
iter = 16911, queue = 23143, heur = -8.0, depth = 8
iter = 16912, queue = 23144, heur = -8.0, depth = 8
iter = 16913, queue = 23145, heur = -8.0, depth = 8
iter = 16914, queue = 23146, heur = -8.0, depth = 8
iter = 16915, queue = 23149, heur = -8.0, depth = 8
iter = 16916, queue = 23150, heur = -8.0, depth = 8
iter = 16917, queue = 23152, heur = -8.0, depth = 8
iter = 16918, queue = 23153, heur = -8.0, depth = 8
iter = 16919, queue = 23155, heur = -8.0, depth = 8
iter = 16920, queue = 23158, heur = -8.0, depth = 8
iter = 16921, queue = 23159, heur = -8.0, depth = 9
iter = 16922, queue = 23159, heur = -8.0, depth = 8
iter = 16923, queue = 23162, heur = -8.0, depth = 8
iter = 16924, queue = 23162, heur = -8.0, depth = 8
iter = 16925, queue = 23163, heur = -8.0, depth = 8
iter = 16926, queue = 23166, heur = -8.0, depth = 8
iter = 16927, queue = 23169, heur = -8.0, depth = 8
iter = 16928, queue = 23170, heur = -8.0, depth = 8
iter = 16929, queue = 23171, heur = -8.0, depth = 8
iter = 16930, queue = 23173, heur = -8.0, depth = 8
iter = 16931, queue = 23176, heur = -8.0, depth = 8
iter = 16932, queue = 23176, heur = -8.0, depth = 8
iter = 16933, queue = 23179, heur = -8.0, depth = 8
iter = 16934, queue = 23178, heur = -8.0, depth = 8
iter = 16935, queue = 23179, heur = -8.0, depth = 8
```

```
iter = 16936, queue = 23178, heur = -8.0, depth = 8
iter = 16937, queue = 23179, heur = -8.0, depth = 8
iter = 16938, queue = 23180, heur = -8.0, depth = 8
iter = 16939, queue = 23181, heur = -8.0, depth = 8
iter = 16940, queue = 23182, heur = -8.0, depth = 8
iter = 16941, queue = 23181, heur = -8.0, depth = 8
iter = 16942, queue = 23181, heur = -8.0, depth = 8
iter = 16943, queue = 23182, heur = -8.0, depth = 8
iter = 16944, queue = 23182, heur = -8.0, depth = 8
iter = 16945, queue = 23185, heur = -8.0, depth = 8
iter = 16946, queue = 23186, heur = -8.0, depth = 8
iter = 16947, queue = 23185, heur = -8.0, depth = 8
iter = 16948, queue = 23186, heur = -8.0, depth = 8
iter = 16949, queue = 23187, heur = -8.0, depth = 8
iter = 16950, queue = 23188, heur = -8.0, depth = 8
iter = 16951, queue = 23191, heur = -8.0, depth = 8
iter = 16952, queue = 23193, heur = -8.0, depth = 9
iter = 16953, queue = 23194, heur = -8.0, depth = 8
iter = 16954, queue = 23195, heur = -8.0, depth = 8
iter = 16955, queue = 23194, heur = -8.0, depth = 8
iter = 16956, queue = 23195, heur = -8.0, depth = 8
iter = 16957, queue = 23196, heur = -8.0, depth = 8
iter = 16958, queue = 23198, heur = -8.0, depth = 8
iter = 16959, queue = 23199, heur = -8.0, depth = 8
iter = 16960, queue = 23200, heur = -8.0, depth = 9
iter = 16961, queue = 23203, heur = -8.0, depth = 8
iter = 16962, queue = 23202, heur = -8.0, depth = 8
iter = 16963, queue = 23203, heur = -8.0, depth = 8
iter = 16964, queue = 23202, heur = -8.0, depth = 8
iter = 16965, queue = 23201, heur = -8.0, depth = 8
iter = 16966, queue = 23202, heur = -8.0, depth = 8
iter = 16967, queue = 23203, heur = -8.0, depth = 8
iter = 16968, queue = 23202, heur = -8.0, depth = 8
iter = 16969, queue = 23204, heur = -8.0, depth = 9
iter = 16970, queue = 23205, heur = -8.0, depth = 8
iter = 16971, queue = 23206, heur = -8.0, depth = 8
iter = 16972, queue = 23207, heur = -8.0, depth = 8
iter = 16973, queue = 23207, heur = -8.0, depth = 8
iter = 16974, queue = 23208, heur = -8.0, depth = 8
iter = 16975, queue = 23211, heur = -8.0, depth = 8
iter = 16976, queue = 23212, heur = -8.0, depth = 8
iter = 16977, queue = 23215, heur = -8.0, depth = 8
iter = 16978, queue = 23216, heur = -8.0, depth = 8
iter = 16979, queue = 23215, heur = -8.0, depth = 8
iter = 16980, queue = 23215, heur = -8.0, depth = 8
iter = 16981, queue = 23216, heur = -8.0, depth = 8
iter = 16982, queue = 23218, heur = -8.0, depth = 8
iter = 16983, queue = 23219, heur = -8.0, depth = 8
iter = 16984, queue = 23220, heur = -8.0, depth = 8
iter = 16985, queue = 23220, heur = -8.0, depth = 8
iter = 16986, queue = 23220, heur = -8.0, depth = 8
iter = 16987, queue = 23223, heur = -8.0, depth = 8
iter = 16988, queue = 23223, heur = -8.0, depth = 8
iter = 16989, queue = 23224, heur = -8.0, depth = 8
iter = 16990, queue = 23225, heur = -8.0, depth = 8
iter = 16991, queue = 23226, heur = -8.0, depth = 8
iter = 16992, queue = 23227, heur = -8.0, depth = 8
iter = 16993, queue = 23230, heur = -8.0, depth = 8
iter = 16994, queue = 23232, heur = -8.0, depth = 8
```

```
iter = 16995, queue = 23235, heur = -8.0, depth = 8
iter = 16996, queue = 23235, heur = -8.0, depth = 8
iter = 16997, queue = 23238, heur = -8.0, depth = 8
iter = 16998, queue = 23239, heur = -8.0, depth = 8
iter = 16999, queue = 23239, heur = -8.0, depth = 8
iter = 17000, queue = 23240, heur = -8.0, depth = 8
iter = 17001, queue = 23241, heur = -8.0, depth = 8
iter = 17002, queue = 23242, heur = -8.0, depth = 8
iter = 17003, queue = 23245, heur = -8.0, depth = 8
iter = 17004, queue = 23248, heur = -8.0, depth = 8
iter = 17005, queue = 23251, heur = -8.0, depth = 8
iter = 17006, queue = 23254, heur = -8.0, depth = 8
iter = 17007, queue = 23257, heur = -8.0, depth = 8
iter = 17008, queue = 23258, heur = -8.0, depth = 8
iter = 17009, queue = 23257, heur = -8.0, depth = 8
iter = 17010, queue = 23258, heur = -8.0, depth = 8
iter = 17011, queue = 23258, heur = -8.0, depth = 8
iter = 17012, queue = 23258, heur = -8.0, depth = 8
iter = 17013, queue = 23259, heur = -8.0, depth = 8
iter = 17014, queue = 23262, heur = -8.0, depth = 8
iter = 17015, queue = 23265, heur = -8.0, depth = 8
iter = 17016, queue = 23266, heur = -8.0, depth = 8
iter = 17017, queue = 23269, heur = -8.0, depth = 8
iter = 17018, queue = 23272, heur = -8.0, depth = 8
iter = 17019, queue = 23274, heur = -8.0, depth = 8
iter = 17020, queue = 23275, heur = -8.0, depth = 8
iter = 17021, queue = 23278, heur = -8.0, depth = 8
iter = 17022, queue = 23279, heur = -8.0, depth = 9
iter = 17023, queue = 23279, heur = -8.0, depth = 8
iter = 17024, queue = 23279, heur = -8.0, depth = 8
iter = 17025, queue = 23279, heur = -8.0, depth = 8
iter = 17026, queue = 23281, heur = -8.0, depth = 9
iter = 17027, queue = 23282, heur = -8.0, depth = 8
iter = 17028, queue = 23282, heur = -8.0, depth = 8
iter = 17029, queue = 23283, heur = -8.0, depth = 8
iter = 17030, queue = 23285, heur = -8.0, depth = 8
iter = 17031, queue = 23286, heur = -8.0, depth = 8
iter = 17032, queue = 23285, heur = -8.0, depth = 8
iter = 17033, queue = 23285, heur = -8.0, depth = 8
iter = 17034, queue = 23285, heur = -8.0, depth = 8
iter = 17035, queue = 23287, heur = -8.0, depth = 8
iter = 17036, queue = 23289, heur = -8.0, depth = 8
iter = 17037, queue = 23290, heur = -8.0, depth = 8
iter = 17038, queue = 23291, heur = -8.0, depth = 8
iter = 17039, queue = 23292, heur = -8.0, depth = 8
iter = 17040, queue = 23293, heur = -8.0, depth = 9
iter = 17041, queue = 23295, heur = -8.0, depth = 8
iter = 17042, queue = 23297, heur = -8.0, depth = 8
iter = 17043, queue = 23298, heur = -8.0, depth = 8
iter = 17044, queue = 23299, heur = -8.0, depth = 8
iter = 17045, queue = 23300, heur = -8.0, depth = 8
iter = 17046, queue = 23303, heur = -8.0, depth = 8
iter = 17047, queue = 23302, heur = -8.0, depth = 8
iter = 17048, queue = 23302, heur = -8.0, depth = 8
iter = 17049, queue = 23305, heur = -8.0, depth = 8
iter = 17050, queue = 23305, heur = -8.0, depth = 8
iter = 17051, queue = 23308, heur = -8.0, depth = 8
iter = 17052, queue = 23308, heur = -8.0, depth = 8
iter = 17053, queue = 23308, heur = -8.0, depth = 8
```

```
iter = 17054, queue = 23308, heur = -8.0, depth = 8
iter = 17055, queue = 23309, heur = -8.0, depth = 8
iter = 17056, queue = 23310, heur = -8.0, depth = 8
iter = 17057, queue = 23311, heur = -8.0, depth = 9
iter = 17058, queue = 23312, heur = -8.0, depth = 8
iter = 17059, queue = 23313, heur = -8.0, depth = 8
iter = 17060, queue = 23315, heur = -8.0, depth = 8
iter = 17061, queue = 23316, heur = -8.0, depth = 8
iter = 17062, queue = 23319, heur = -8.0, depth = 8
iter = 17063, queue = 23320, heur = -8.0, depth = 8
iter = 17064, queue = 23321, heur = -8.0, depth = 8
iter = 17065, queue = 23322, heur = -8.0, depth = 8
iter = 17066, queue = 23323, heur = -8.0, depth = 8
iter = 17067, queue = 23326, heur = -8.0, depth = 8
iter = 17068, queue = 23329, heur = -8.0, depth = 8
iter = 17069, queue = 23329, heur = -8.0, depth = 8
iter = 17070, queue = 23332, heur = -8.0, depth = 8
iter = 17071, queue = 23335, heur = -8.0, depth = 8
iter = 17072, queue = 23335, heur = -8.0, depth = 8
iter = 17073, queue = 23335, heur = -8.0, depth = 9
iter = 17074, queue = 23337, heur = -8.0, depth = 8
iter = 17075, queue = 23338, heur = -8.0, depth = 8
iter = 17076, queue = 23339, heur = -8.0, depth = 8
iter = 17077, queue = 23339, heur = -8.0, depth = 8
iter = 17078, queue = 23341, heur = -8.0, depth = 8
iter = 17079, queue = 23343, heur = -8.0, depth = 8
iter = 17080, queue = 23342, heur = -8.0, depth = 8
iter = 17081, queue = 23342, heur = -8.0, depth = 8
iter = 17082, queue = 23345, heur = -8.0, depth = 8
iter = 17083, queue = 23348, heur = -8.0, depth = 8
iter = 17084, queue = 23348, heur = -8.0, depth = 8
iter = 17085, queue = 23351, heur = -8.0, depth = 8
iter = 17086, queue = 23351, heur = -8.0, depth = 8
iter = 17087, queue = 23351, heur = -8.0, depth = 8
iter = 17088, queue = 23354, heur = -8.0, depth = 8
iter = 17089, queue = 23354, heur = -8.0, depth = 8
iter = 17090, queue = 23353, heur = -8.0, depth = 8
iter = 17091, queue = 23353, heur = -8.0, depth = 8
iter = 17092, queue = 23356, heur = -8.0, depth = 8
iter = 17093, queue = 23359, heur = -8.0, depth = 8
iter = 17094, queue = 23362, heur = -8.0, depth = 8
iter = 17095, queue = 23364, heur = -8.0, depth = 9
iter = 17096, queue = 23366, heur = -8.0, depth = 8
iter = 17097, queue = 23369, heur = -8.0, depth = 8
iter = 17098, queue = 23370, heur = -8.0, depth = 8
iter = 17099, queue = 23373, heur = -8.0, depth = 8
iter = 17100, queue = 23375, heur = -8.0, depth = 8
iter = 17101, queue = 23378, heur = -8.0, depth = 8
iter = 17102, queue = 23380, heur = -8.0, depth = 8
iter = 17103, queue = 23381, heur = -8.0, depth = 8
iter = 17104, queue = 23381, heur = -8.0, depth = 8
iter = 17105, queue = 23384, heur = -8.0, depth = 8
iter = 17106, queue = 23385, heur = -8.0, depth = 8
iter = 17107, queue = 23385, heur = -8.0, depth = 8
iter = 17108, queue = 23387, heur = -8.0, depth = 8
iter = 17109, queue = 23390, heur = -8.0, depth = 8
iter = 17110, queue = 23393, heur = -8.0, depth = 8
iter = 17111, queue = 23394, heur = -8.0, depth = 8
iter = 17112, queue = 23395, heur = -8.0, depth = 8
```

```
iter = 17113, queue = 23395, heur = -8.0, depth = 8
iter = 17114, queue = 23398, heur = -8.0, depth = 8
iter = 17115, queue = 23399, heur = -8.0, depth = 8
iter = 17116, queue = 23398, heur = -8.0, depth = 8
iter = 17117, queue = 23399, heur = -8.0, depth = 8
iter = 17118, queue = 23399, heur = -8.0, depth = 8
iter = 17119, queue = 23399, heur = -8.0, depth = 8
iter = 17120, queue = 23400, heur = -8.0, depth = 8
iter = 17121, queue = 23403, heur = -8.0, depth = 8
iter = 17122, queue = 23404, heur = -8.0, depth = 8
iter = 17123, queue = 23403, heur = -8.0, depth = 9
iter = 17124, queue = 23404, heur = -8.0, depth = 12
iter = 17125, queue = 23407, heur = -8.0, depth = 8
iter = 17126, queue = 23409, heur = -8.0, depth = 10
iter = 17127, queue = 23409, heur = -8.0, depth = 8
iter = 17128, queue = 23411, heur = -8.0, depth = 8
iter = 17129, queue = 23412, heur = -8.0, depth = 8
iter = 17130, queue = 23413, heur = -8.0, depth = 8
iter = 17131, queue = 23414, heur = -8.0, depth = 8
iter = 17132, queue = 23416, heur = -8.0, depth = 9
iter = 17133, queue = 23418, heur = -8.0, depth = 8
iter = 17134, queue = 23419, heur = -8.0, depth = 8
iter = 17135, queue = 23420, heur = -8.0, depth = 8
iter = 17136, queue = 23423, heur = -8.0, depth = 10
iter = 17137, queue = 23425, heur = -8.0, depth = 8
iter = 17138, queue = 23426, heur = -8.0, depth = 8
iter = 17139, queue = 23427, heur = -8.0, depth = 8
iter = 17140, queue = 23429, heur = -8.0, depth = 11
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
```

```
iter = 17231, queue = 23524, heur = -8.0, depth = 8
iter = 17232, queue = 23525, heur = -8.0, depth = 8
iter = 17233, queue = 23526, heur = -8.0, depth = 8
iter = 17234, queue = 23527, heur = -8.0, depth = 8
iter = 17235, queue = 23529, heur = -8.0, depth = 8
iter = 17236, queue = 23531, heur = -8.0, depth = 8
iter = 17237, queue = 23531, heur = -8.0, depth = 8
iter = 17238, queue = 23531, heur = -8.0, depth = 8
iter = 17239, queue = 23531, heur = -8.0, depth = 8
iter = 17240, queue = 23533, heur = -8.0, depth = 8
iter = 17241, queue = 23536, heur = -8.0, depth = 8
iter = 17242, queue = 23539, heur = -8.0, depth = 8
iter = 17243, queue = 23538, heur = -8.0, depth = 8
iter = 17244, queue = 23537, heur = -8.0, depth = 8
iter = 17245, queue = 23540, heur = -8.0, depth = 8
iter = 17246, queue = 23539, heur = -8.0, depth = 8
iter = 17247, queue = 23539, heur = -8.0, depth = 8
iter = 17248, queue = 23540, heur = -8.0, depth = 8
iter = 17249, queue = 23542, heur = -8.0, depth = 8
iter = 17250, queue = 23542, heur = -8.0, depth = 8
iter = 17251, queue = 23545, heur = -8.0, depth = 8
iter = 17252, queue = 23544, heur = -8.0, depth = 8
iter = 17253, queue = 23547, heur = -8.0, depth = 8
iter = 17254, queue = 23549, heur = -8.0, depth = 8
iter = 17255, queue = 23549, heur = -8.0, depth = 8
iter = 17256, queue = 23548, heur = -8.0, depth = 8
iter = 17257, queue = 23550, heur = -8.0, depth = 8
iter = 17258, queue = 23552, heur = -8.0, depth = 8
iter = 17259, queue = 23551, heur = -8.0, depth = 8
iter = 17260, queue = 23550, heur = -8.0, depth = 8
iter = 17261, queue = 23551, heur = -8.0, depth = 8
iter = 17262, queue = 23554, heur = -8.0, depth = 8
iter = 17263, queue = 23553, heur = -8.0, depth = 8
iter = 17264, queue = 23552, heur = -8.0, depth = 8
iter = 17265, queue = 23554, heur = -8.0, depth = 8
iter = 17266, queue = 23556, heur = -8.0, depth = 8
iter = 17267, queue = 23559, heur = -8.0, depth = 8
iter = 17268, queue = 23562, heur = -8.0, depth = 8
iter = 17269, queue = 23563, heur = -8.0, depth = 8
iter = 17270, queue = 23562, heur = -8.0, depth = 8
iter = 17271, queue = 23561, heur = -8.0, depth = 8
iter = 17272, queue = 23561, heur = -8.0, depth = 8
iter = 17273, queue = 23564, heur = -8.0, depth = 8
iter = 17274, queue = 23564, heur = -8.0, depth = 8
iter = 17275, queue = 23567, heur = -8.0, depth = 8
iter = 17276, queue = 23566, heur = -8.0, depth = 8
iter = 17277, queue = 23567, heur = -8.0, depth = 8
iter = 17278, queue = 23567, heur = -8.0, depth = 8
iter = 17279, queue = 23569, heur = -8.0, depth = 8
iter = 17280, queue = 23570, heur = -8.0, depth = 8
iter = 17281, queue = 23573, heur = -8.0, depth = 8
iter = 17282, queue = 23574, heur = -8.0, depth = 8
iter = 17283, queue = 23574, heur = -8.0, depth = 8
iter = 17284, queue = 23573, heur = -8.0, depth = 8
iter = 17285, queue = 23573, heur = -8.0, depth = 8
iter = 17286, queue = 23573, heur = -8.0, depth = 8
iter = 17287, queue = 23576, heur = -8.0, depth = 8
iter = 17288, queue = 23579, heur = -8.0, depth = 8
iter = 17289, queue = 23579, heur = -8.0, depth = 8
```

```
iter = 17290, queue = 23581, heur = -8.0, depth = 8
iter = 17291, queue = 23582, heur = -8.0, depth = 8
iter = 17292, queue = 23582, heur = -8.0, depth = 8
iter = 17293, queue = 23582, heur = -8.0, depth = 8
iter = 17294, queue = 23583, heur = -8.0, depth = 8
iter = 17295, queue = 23585, heur = -8.0, depth = 8
iter = 17296, queue = 23586, heur = -8.0, depth = 8
iter = 17297, queue = 23587, heur = -8.0, depth = 8
iter = 17298, queue = 23588, heur = -8.0, depth = 8
iter = 17299, queue = 23590, heur = -8.0, depth = 8
iter = 17300, queue = 23590, heur = -8.0, depth = 8
iter = 17301, queue = 23591, heur = -8.0, depth = 8
iter = 17302, queue = 23592, heur = -8.0, depth = 8
iter = 17303, queue = 23595, heur = -8.0, depth = 8
iter = 17304, queue = 23597, heur = -8.0, depth = 8
iter = 17305, queue = 23600, heur = -8.0, depth = 8
iter = 17306, queue = 23601, heur = -8.0, depth = 8
iter = 17307, queue = 23602, heur = -8.0, depth = 8
iter = 17308, queue = 23603, heur = -8.0, depth = 8
iter = 17309, queue = 23604, heur = -8.0, depth = 8
iter = 17310, queue = 23605, heur = -8.0, depth = 8
iter = 17311, queue = 23606, heur = -8.0, depth = 8
iter = 17312, queue = 23607, heur = -8.0, depth = 8
iter = 17313, queue = 23608, heur = -8.0, depth = 8
iter = 17314, queue = 23609, heur = -8.0, depth = 8
iter = 17315, queue = 23610, heur = -8.0, depth = 8
iter = 17316, queue = 23610, heur = -8.0, depth = 8
iter = 17317, queue = 23611, heur = -8.0, depth = 8
iter = 17318, queue = 23610, heur = -8.0, depth = 8
iter = 17319, queue = 23611, heur = -8.0, depth = 8
iter = 17320, queue = 23613, heur = -8.0, depth = 8
iter = 17321, queue = 23614, heur = -8.0, depth = 8
iter = 17322, queue = 23617, heur = -8.0, depth = 8
iter = 17323, queue = 23618, heur = -8.0, depth = 8
iter = 17324, queue = 23620, heur = -8.0, depth = 8
iter = 17325, queue = 23620, heur = -8.0, depth = 8
iter = 17326, queue = 23623, heur = -8.0, depth = 8
iter = 17327, queue = 23624, heur = -8.0, depth = 8
iter = 17328, queue = 23627, heur = -8.0, depth = 8
iter = 17329, queue = 23630, heur = -8.0, depth = 8
iter = 17330, queue = 23631, heur = -8.0, depth = 8
iter = 17331, queue = 23631, heur = -8.0, depth = 8
iter = 17332, queue = 23631, heur = -8.0, depth = 8
iter = 17333, queue = 23632, heur = -8.0, depth = 8
iter = 17334, queue = 23635, heur = -8.0, depth = 8
iter = 17335, queue = 23637, heur = -8.0, depth = 8
iter = 17336, queue = 23638, heur = -8.0, depth = 8
iter = 17337, queue = 23639, heur = -8.0, depth = 8
iter = 17338, queue = 23640, heur = -8.0, depth = 8
iter = 17339, queue = 23641, heur = -8.0, depth = 8
iter = 17340, queue = 23644, heur = -8.0, depth = 8
iter = 17341, queue = 23645, heur = -8.0, depth = 8
iter = 17342, queue = 23647, heur = -8.0, depth = 8
iter = 17343, queue = 23648, heur = -8.0, depth = 8
iter = 17344, queue = 23651, heur = -8.0, depth = 8
iter = 17345, queue = 23652, heur = -8.0, depth = 9
iter = 17346, queue = 23655, heur = -8.0, depth = 8
iter = 17347, queue = 23656, heur = -8.0, depth = 8
iter = 17348, queue = 23656, heur = -8.0, depth = 8
```

```
iter = 17349, queue = 23659, heur = -8.0, depth = 10
iter = 17350, queue = 23660, heur = -8.0, depth = 8
iter = 17351, queue = 23660, heur = -8.0, depth = 8
iter = 17352, queue = 23661, heur = -8.0, depth = 8
iter = 17353, queue = 23661, heur = -8.0, depth = 8
iter = 17354, queue = 23662, heur = -8.0, depth = 8
iter = 17355, queue = 23664, heur = -8.0, depth = 8
iter = 17356, queue = 23665, heur = -8.0, depth = 8
iter = 17357, queue = 23665, heur = -8.0, depth = 8
iter = 17358, queue = 23664, heur = -8.0, depth = 8
iter = 17359, queue = 23663, heur = -8.0, depth = 8
iter = 17360, queue = 23665, heur = -8.0, depth = 8
iter = 17361, queue = 23668, heur = -8.0, depth = 8
iter = 17362, queue = 23669, heur = -8.0, depth = 8
iter = 17363, queue = 23669, heur = -8.0, depth = 8
iter = 17364, queue = 23670, heur = -8.0, depth = 8
iter = 17365, queue = 23670, heur = -8.0, depth = 8
iter = 17366, queue = 23669, heur = -8.0, depth = 8
iter = 17367, queue = 23668, heur = -8.0, depth = 8
iter = 17368, queue = 23669, heur = -8.0, depth = 8
iter = 17369, queue = 23670, heur = -8.0, depth = 8
iter = 17370, queue = 23669, heur = -8.0, depth = 8
iter = 17371, queue = 23668, heur = -8.0, depth = 8
iter = 17372, queue = 23670, heur = -8.0, depth = 8
iter = 17373, queue = 23671, heur = -8.0, depth = 8
iter = 17374, queue = 23672, heur = -8.0, depth = 8
iter = 17375, queue = 23671, heur = -8.0, depth = 8
iter = 17376, queue = 23672, heur = -8.0, depth = 8
iter = 17377, queue = 23673, heur = -8.0, depth = 8
iter = 17378, queue = 23674, heur = -8.0, depth = 8
iter = 17379, queue = 23675, heur = -8.0, depth = 8
iter = 17380, queue = 23674, heur = -8.0, depth = 8
iter = 17381, queue = 23676, heur = -8.0, depth = 8
iter = 17382, queue = 23676, heur = -8.0, depth = 8
iter = 17383, queue = 23677, heur = -8.0, depth = 8
iter = 17384, queue = 23678, heur = -8.0, depth = 8
iter = 17385, queue = 23677, heur = -8.0, depth = 8
iter = 17386, queue = 23676, heur = -8.0, depth = 8
iter = 17387, queue = 23677, heur = -8.0, depth = 8
iter = 17388, queue = 23679, heur = -8.0, depth = 8
iter = 17389, queue = 23680, heur = -8.0, depth = 8
iter = 17390, queue = 23683, heur = -8.0, depth = 8
iter = 17391, queue = 23684, heur = -8.0, depth = 8
iter = 17392, queue = 23684, heur = -8.0, depth = 8
iter = 17393, queue = 23687, heur = -8.0, depth = 8
iter = 17394, queue = 23688, heur = -8.0, depth = 8
iter = 17395, queue = 23688, heur = -8.0, depth = 8
iter = 17396, queue = 23689, heur = -8.0, depth = 8
iter = 17397, queue = 23690, heur = -8.0, depth = 8
iter = 17398, queue = 23691, heur = -8.0, depth = 8
iter = 17399, queue = 23692, heur = -8.0, depth = 8
iter = 17400, queue = 23693, heur = -8.0, depth = 8
iter = 17401, queue = 23694, heur = -8.0, depth = 8
iter = 17402, queue = 23695, heur = -8.0, depth = 8
iter = 17403, queue = 23698, heur = -8.0, depth = 8
iter = 17404, queue = 23698, heur = -8.0, depth = 8
iter = 17405, queue = 23697, heur = -8.0, depth = 8
iter = 17406, queue = 23698, heur = -8.0, depth = 8
iter = 17407, queue = 23699, heur = -8.0, depth = 8
```

```
iter = 17408, queue = 23700, heur = -8.0, depth = 8
iter = 17409, queue = 23701, heur = -8.0, depth = 8
iter = 17410, queue = 23701, heur = -8.0, depth = 8
iter = 17411, queue = 23700, heur = -8.0, depth = 8
iter = 17412, queue = 23699, heur = -8.0, depth = 8
iter = 17413, queue = 23701, heur = -8.0, depth = 8
iter = 17414, queue = 23702, heur = -8.0, depth = 8
iter = 17415, queue = 23703, heur = -8.0, depth = 8
iter = 17416, queue = 23705, heur = -8.0, depth = 8
iter = 17417, queue = 23708, heur = -8.0, depth = 8
iter = 17418, queue = 23709, heur = -8.0, depth = 8
iter = 17419, queue = 23710, heur = -8.0, depth = 8
iter = 17420, queue = 23711, heur = -8.0, depth = 8
iter = 17421, queue = 23712, heur = -8.0, depth = 8
iter = 17422, queue = 23713, heur = -8.0, depth = 8
iter = 17423, queue = 23716, heur = -8.0, depth = 8
iter = 17424, queue = 23719, heur = -8.0, depth = 8
iter = 17425, queue = 23720, heur = -8.0, depth = 8
iter = 17426, queue = 23720, heur = -8.0, depth = 8
iter = 17427, queue = 23722, heur = -8.0, depth = 8
iter = 17428, queue = 23723, heur = -8.0, depth = 8
iter = 17429, queue = 23724, heur = -8.0, depth = 8
iter = 17430, queue = 23725, heur = -8.0, depth = 8
iter = 17431, queue = 23726, heur = -8.0, depth = 8
iter = 17432, queue = 23727, heur = -8.0, depth = 8
iter = 17433, queue = 23730, heur = -8.0, depth = 8
iter = 17434, queue = 23731, heur = -8.0, depth = 8
iter = 17435, queue = 23730, heur = -8.0, depth = 8
iter = 17436, queue = 23731, heur = -8.0, depth = 8
iter = 17437, queue = 23732, heur = -8.0, depth = 8
iter = 17438, queue = 23734, heur = -8.0, depth = 8
iter = 17439, queue = 23735, heur = -8.0, depth = 8
iter = 17440, queue = 23734, heur = -8.0, depth = 8
iter = 17441, queue = 23736, heur = -8.0, depth = 8
iter = 17442, queue = 23736, heur = -8.0, depth = 8
iter = 17443, queue = 23737, heur = -8.0, depth = 8
iter = 17444, queue = 23738, heur = -8.0, depth = 8
iter = 17445, queue = 23737, heur = -8.0, depth = 8
iter = 17446, queue = 23738, heur = -8.0, depth = 8
iter = 17447, queue = 23740, heur = -8.0, depth = 8
iter = 17448, queue = 23742, heur = -8.0, depth = 8
iter = 17449, queue = 23743, heur = -8.0, depth = 8
iter = 17450, queue = 23744, heur = -8.0, depth = 8
iter = 17451, queue = 23745, heur = -8.0, depth = 8
iter = 17452, queue = 23746, heur = -8.0, depth = 8
iter = 17453, queue = 23746, heur = -8.0, depth = 8
iter = 17454, queue = 23747, heur = -8.0, depth = 8
iter = 17455, queue = 23748, heur = -8.0, depth = 8
iter = 17456, queue = 23751, heur = -8.0, depth = 8
iter = 17457, queue = 23754, heur = -8.0, depth = 8
iter = 17458, queue = 23756, heur = -8.0, depth = 10
iter = 17459, queue = 23758, heur = -8.0, depth = 9
iter = 17460, queue = 23761, heur = -8.0, depth = 8
iter = 17461, queue = 23764, heur = -8.0, depth = 8
iter = 17462, queue = 23763, heur = -8.0, depth = 8
iter = 17463, queue = 23763, heur = -8.0, depth = 8
iter = 17464, queue = 23764, heur = -8.0, depth = 8
iter = 17465, queue = 23763, heur = -8.0, depth = 8
iter = 17466, queue = 23762, heur = -8.0, depth = 8
```

```
iter = 17467, queue = 23765, heur = -8.0, depth = 8
iter = 17468, queue = 23766, heur = -8.0, depth = 8
iter = 17469, queue = 23767, heur = -8.0, depth = 8
iter = 17470, queue = 23767, heur = -8.0, depth = 8
iter = 17471, queue = 23768, heur = -8.0, depth = 8
iter = 17472, queue = 23769, heur = -8.0, depth = 8
iter = 17473, queue = 23770, heur = -8.0, depth = 8
iter = 17474, queue = 23772, heur = -8.0, depth = 8
iter = 17475, queue = 23772, heur = -8.0, depth = 8
iter = 17476, queue = 23775, heur = -8.0, depth = 8
iter = 17477, queue = 23778, heur = -8.0, depth = 8
iter = 17478, queue = 23780, heur = -8.0, depth = 8
iter = 17479, queue = 23783, heur = -8.0, depth = 8
iter = 17480, queue = 23785, heur = -8.0, depth = 8
iter = 17481, queue = 23786, heur = -8.0, depth = 8
iter = 17482, queue = 23787, heur = -8.0, depth = 8
iter = 17483, queue = 23790, heur = -8.0, depth = 8
iter = 17484, queue = 23791, heur = -8.0, depth = 8
iter = 17485, queue = 23791, heur = -8.0, depth = 8
iter = 17486, queue = 23792, heur = -8.0, depth = 8
iter = 17487, queue = 23792, heur = -8.0, depth = 8
iter = 17488, queue = 23795, heur = -8.0, depth = 8
iter = 17489, queue = 23798, heur = -8.0, depth = 8
iter = 17490, queue = 23801, heur = -8.0, depth = 8
iter = 17491, queue = 23802, heur = -8.0, depth = 8
iter = 17492, queue = 23803, heur = -8.0, depth = 8
iter = 17493, queue = 23805, heur = -8.0, depth = 8
iter = 17494, queue = 23804, heur = -8.0, depth = 8
iter = 17495, queue = 23806, heur = -8.0, depth = 8
iter = 17496, queue = 23807, heur = -8.0, depth = 8
iter = 17497, queue = 23809, heur = -8.0, depth = 8
iter = 17498, queue = 23809, heur = -8.0, depth = 8
iter = 17499, queue = 23810, heur = -8.0, depth = 8
iter = 17500, queue = 23809, heur = -8.0, depth = 8
iter = 17501, queue = 23809, heur = -8.0, depth = 8
iter = 17502, queue = 23812, heur = -8.0, depth = 8
iter = 17503, queue = 23814, heur = -8.0, depth = 8
iter = 17504, queue = 23817, heur = -8.0, depth = 9
iter = 17505, queue = 23818, heur = -8.0, depth = 8
iter = 17506, queue = 23820, heur = -8.0, depth = 8
iter = 17507, queue = 23820, heur = -8.0, depth = 8
iter = 17508, queue = 23819, heur = -8.0, depth = 8
iter = 17509, queue = 23819, heur = -8.0, depth = 8
iter = 17510, queue = 23822, heur = -8.0, depth = 8
iter = 17511, queue = 23822, heur = -8.0, depth = 8
iter = 17512, queue = 23823, heur = -8.0, depth = 8
iter = 17513, queue = 23826, heur = -8.0, depth = 8
iter = 17514, queue = 23827, heur = -8.0, depth = 8
iter = 17515, queue = 23828, heur = -8.0, depth = 8
iter = 17516, queue = 23827, heur = -8.0, depth = 8
iter = 17517, queue = 23828, heur = -8.0, depth = 8
iter = 17518, queue = 23829, heur = -8.0, depth = 8
iter = 17519, queue = 23831, heur = -8.0, depth = 8
iter = 17520, queue = 23832, heur = -8.0, depth = 8
iter = 17521, queue = 23834, heur = -8.0, depth = 8
iter = 17522, queue = 23834, heur = -8.0, depth = 9
iter = 17523, queue = 23835, heur = -8.0, depth = 8
iter = 17524, queue = 23834, heur = -8.0, depth = 8
iter = 17525, queue = 23837, heur = -8.0, depth = 8
```

```
iter = 17526, queue = 23838, heur = -8.0, depth = 8
iter = 17527, queue = 23837, heur = -8.0, depth = 8
iter = 17528, queue = 23839, heur = -8.0, depth = 8
iter = 17529, queue = 23839, heur = -8.0, depth = 8
iter = 17530, queue = 23840, heur = -8.0, depth = 8
iter = 17531, queue = 23841, heur = -8.0, depth = 8
iter = 17532, queue = 23842, heur = -8.0, depth = 8
iter = 17533, queue = 23843, heur = -8.0, depth = 8
iter = 17534, queue = 23845, heur = -8.0, depth = 8
iter = 17535, queue = 23847, heur = -8.0, depth = 8
iter = 17536, queue = 23848, heur = -8.0, depth = 8
iter = 17537, queue = 23847, heur = -8.0, depth = 8
iter = 17538, queue = 23847, heur = -8.0, depth = 8
iter = 17539, queue = 23849, heur = -8.0, depth = 9
iter = 17540, queue = 23850, heur = -8.0, depth = 8
iter = 17541, queue = 23850, heur = -8.0, depth = 8
iter = 17542, queue = 23851, heur = -8.0, depth = 8
iter = 17543, queue = 23852, heur = -8.0, depth = 8
iter = 17544, queue = 23853, heur = -8.0, depth = 8
iter = 17545, queue = 23856, heur = -8.0, depth = 8
iter = 17546, queue = 23859, heur = -8.0, depth = 8
iter = 17547, queue = 23860, heur = -8.0, depth = 8
iter = 17548, queue = 23861, heur = -8.0, depth = 11
iter = 17549, queue = 23861, heur = -8.0, depth = 8
iter = 17550, queue = 23864, heur = -8.0, depth = 8
iter = 17551, queue = 23865, heur = -8.0, depth = 8
iter = 17552, queue = 23866, heur = -8.0, depth = 8
iter = 17553, queue = 23866, heur = -8.0, depth = 8
iter = 17554, queue = 23869, heur = -8.0, depth = 8
iter = 17555, queue = 23870, heur = -8.0, depth = 8
iter = 17556, queue = 23869, heur = -8.0, depth = 8
iter = 17557, queue = 23869, heur = -8.0, depth = 8
iter = 17558, queue = 23871, heur = -8.0, depth = 8
iter = 17559, queue = 23872, heur = -8.0, depth = 8
iter = 17560, queue = 23874, heur = -8.0, depth = 8
iter = 17561, queue = 23873, heur = -8.0, depth = 8
iter = 17562, queue = 23876, heur = -8.0, depth = 8
iter = 17563, queue = 23877, heur = -8.0, depth = 8
iter = 17564, queue = 23880, heur = -8.0, depth = 8
iter = 17565, queue = 23883, heur = -8.0, depth = 8
iter = 17566, queue = 23884, heur = -8.0, depth = 8
iter = 17567, queue = 23887, heur = -8.0, depth = 8
iter = 17568, queue = 23888, heur = -8.0, depth = 8
iter = 17569, queue = 23889, heur = -8.0, depth = 8
iter = 17570, queue = 23890, heur = -8.0, depth = 8
iter = 17571, queue = 23893, heur = -8.0, depth = 8
iter = 17572, queue = 23893, heur = -8.0, depth = 8
iter = 17573, queue = 23894, heur = -8.0, depth = 8
iter = 17574, queue = 23894, heur = -8.0, depth = 8
iter = 17575, queue = 23895, heur = -8.0, depth = 8
iter = 17576, queue = 23898, heur = -8.0, depth = 8
iter = 17577, queue = 23901, heur = -8.0, depth = 8
iter = 17578, queue = 23902, heur = -8.0, depth = 8
iter = 17579, queue = 23904, heur = -8.0, depth = 8
iter = 17580, queue = 23903, heur = -8.0, depth = 8
iter = 17581, queue = 23902, heur = -8.0, depth = 8
iter = 17582, queue = 23901, heur = -8.0, depth = 8
iter = 17583, queue = 23903, heur = -8.0, depth = 8
iter = 17584, queue = 23902, heur = -8.0, depth = 8
```

```
iter = 17585, queue = 23903, heur = -8.0, depth = 8
iter = 17586, queue = 23902, heur = -8.0, depth = 8
iter = 17587, queue = 23901, heur = -8.0, depth = 8
iter = 17588, queue = 23903, heur = -8.0, depth = 8
iter = 17589, queue = 23904, heur = -8.0, depth = 8
iter = 17590, queue = 23904, heur = -8.0, depth = 8
iter = 17591, queue = 23903, heur = -8.0, depth = 8
iter = 17592, queue = 23906, heur = -8.0, depth = 8
iter = 17593, queue = 23907, heur = -8.0, depth = 8
iter = 17594, queue = 23907, heur = -8.0, depth = 8
iter = 17595, queue = 23909, heur = -8.0, depth = 8
iter = 17596, queue = 23908, heur = -8.0, depth = 8
iter = 17597, queue = 23911, heur = -8.0, depth = 8
iter = 17598, queue = 23911, heur = -8.0, depth = 8
iter = 17599, queue = 23913, heur = -8.0, depth = 8
iter = 17600, queue = 23913, heur = -8.0, depth = 8
iter = 17601, queue = 23914, heur = -8.0, depth = 8
iter = 17602, queue = 23913, heur = -8.0, depth = 8
iter = 17603, queue = 23913, heur = -8.0, depth = 8
iter = 17604, queue = 23914, heur = -8.0, depth = 8
iter = 17605, queue = 23913, heur = -8.0, depth = 8
iter = 17606, queue = 23914, heur = -8.0, depth = 8
iter = 17607, queue = 23915, heur = -8.0, depth = 8
iter = 17608, queue = 23916, heur = -8.0, depth = 8
iter = 17609, queue = 23916, heur = -8.0, depth = 8
iter = 17610, queue = 23919, heur = -8.0, depth = 8
iter = 17611, queue = 23922, heur = -8.0, depth = 8
iter = 17612, queue = 23925, heur = -8.0, depth = 8
iter = 17613, queue = 23924, heur = -8.0, depth = 8
iter = 17614, queue = 23923, heur = -8.0, depth = 8
iter = 17615, queue = 23924, heur = -8.0, depth = 8
iter = 17616, queue = 23927, heur = -8.0, depth = 8
iter = 17617, queue = 23930, heur = -8.0, depth = 8
iter = 17618, queue = 23931, heur = -8.0, depth = 8
iter = 17619, queue = 23930, heur = -8.0, depth = 8
iter = 17620, queue = 23931, heur = -8.0, depth = 8
iter = 17621, queue = 23930, heur = -8.0, depth = 8
iter = 17622, queue = 23931, heur = -8.0, depth = 8
iter = 17623, queue = 23932, heur = -8.0, depth = 8
iter = 17624, queue = 23935, heur = -8.0, depth = 8
iter = 17625, queue = 23934, heur = -8.0, depth = 8
iter = 17626, queue = 23935, heur = -8.0, depth = 8
iter = 17627, queue = 23936, heur = -8.0, depth = 8
iter = 17628, queue = 23937, heur = -8.0, depth = 8
iter = 17629, queue = 23938, heur = -8.0, depth = 8
iter = 17630, queue = 23939, heur = -8.0, depth = 8
iter = 17631, queue = 23940, heur = -8.0, depth = 8
iter = 17632, queue = 23940, heur = -8.0, depth = 8
iter = 17633, queue = 23939, heur = -8.0, depth = 8
iter = 17634, queue = 23942, heur = -8.0, depth = 8
iter = 17635, queue = 23945, heur = -8.0, depth = 8
iter = 17636, queue = 23946, heur = -8.0, depth = 8
iter = 17637, queue = 23947, heur = -8.0, depth = 8
iter = 17638, queue = 23948, heur = -8.0, depth = 8
iter = 17639, queue = 23947, heur = -8.0, depth = 8
iter = 17640, queue = 23947, heur = -8.0, depth = 8
iter = 17641, queue = 23948, heur = -8.0, depth = 8
iter = 17642, queue = 23951, heur = -8.0, depth = 8
iter = 17643, queue = 23952, heur = -8.0, depth = 8
```

```
iter = 17644, queue = 23951, heur = -8.0, depth = 8
iter = 17645, queue = 23951, heur = -8.0, depth = 8
iter = 17646, queue = 23952, heur = -8.0, depth = 8
iter = 17647, queue = 23953, heur = -8.0, depth = 8
iter = 17648, queue = 23954, heur = -8.0, depth = 8
iter = 17649, queue = 23955, heur = -8.0, depth = 8
iter = 17650, queue = 23958, heur = -8.0, depth = 8
iter = 17651, queue = 23959, heur = -8.0, depth = 8
iter = 17652, queue = 23960, heur = -8.0, depth = 8
iter = 17653, queue = 23961, heur = -8.0, depth = 8
iter = 17654, queue = 23961, heur = -8.0, depth = 8
iter = 17655, queue = 23961, heur = -8.0, depth = 8
iter = 17656, queue = 23963, heur = -8.0, depth = 8
iter = 17657, queue = 23964, heur = -8.0, depth = 8
iter = 17658, queue = 23966, heur = -8.0, depth = 8
iter = 17659, queue = 23968, heur = -8.0, depth = 8
iter = 17660, queue = 23969, heur = -8.0, depth = 8
iter = 17661, queue = 23972, heur = -8.0, depth = 8
iter = 17662, queue = 23973, heur = -8.0, depth = 8
iter = 17663, queue = 23975, heur = -8.0, depth = 8
iter = 17664, queue = 23976, heur = -8.0, depth = 8
iter = 17665, queue = 23979, heur = -8.0, depth = 8
iter = 17666, queue = 23981, heur = -8.0, depth = 8
iter = 17667, queue = 23984, heur = -8.0, depth = 8
iter = 17668, queue = 23983, heur = -8.0, depth = 8
iter = 17669, queue = 23983, heur = -8.0, depth = 8
iter = 17670, queue = 23985, heur = -8.0, depth = 9
iter = 17671, queue = 23986, heur = -8.0, depth = 8
iter = 17672, queue = 23987, heur = -8.0, depth = 8
iter = 17673, queue = 23987, heur = -8.0, depth = 8
iter = 17674, queue = 23987, heur = -8.0, depth = 8
iter = 17675, queue = 23988, heur = -8.0, depth = 8
iter = 17676, queue = 23988, heur = -8.0, depth = 8
iter = 17677, queue = 23988, heur = -8.0, depth = 8
iter = 17678, queue = 23991, heur = -8.0, depth = 9
iter = 17679, queue = 23992, heur = -8.0, depth = 8
iter = 17680, queue = 23993, heur = -8.0, depth = 8
iter = 17681, queue = 23994, heur = -8.0, depth = 8
iter = 17682, queue = 23997, heur = -8.0, depth = 8
iter = 17683, queue = 23997, heur = -8.0, depth = 8
iter = 17684, queue = 23998, heur = -8.0, depth = 8
iter = 17685, queue = 23998, heur = -8.0, depth = 8
iter = 17686, queue = 23997, heur = -8.0, depth = 8
iter = 17687, queue = 23998, heur = -8.0, depth = 8
iter = 17688, queue = 24001, heur = -8.0, depth = 8
iter = 17689, queue = 24002, heur = -8.0, depth = 8
iter = 17690, queue = 24001, heur = -8.0, depth = 8
iter = 17691, queue = 24001, heur = -8.0, depth = 8
iter = 17692, queue = 24002, heur = -8.0, depth = 8
iter = 17693, queue = 24003, heur = -8.0, depth = 8
iter = 17694, queue = 24004, heur = -8.0, depth = 8
iter = 17695, queue = 24004, heur = -8.0, depth = 8
iter = 17696, queue = 24004, heur = -8.0, depth = 8
iter = 17697, queue = 24006, heur = -8.0, depth = 8
iter = 17698, queue = 24005, heur = -8.0, depth = 8
iter = 17699, queue = 24005, heur = -8.0, depth = 8
iter = 17700, queue = 24005, heur = -8.0, depth = 8
iter = 17701, queue = 24007, heur = -8.0, depth = 8
iter = 17702, queue = 24009, heur = -8.0, depth = 8
```

```
iter = 17703, queue = 24010, heur = -8.0, depth = 8
iter = 17704, queue = 24013, heur = -8.0, depth = 8
iter = 17705, queue = 24016, heur = -8.0, depth = 8
iter = 17706, queue = 24017, heur = -8.0, depth = 8
iter = 17707, queue = 24016, heur = -8.0, depth = 8
iter = 17708, queue = 24017, heur = -8.0, depth = 8
iter = 17709, queue = 24019, heur = -8.0, depth = 8
iter = 17710, queue = 24022, heur = -8.0, depth = 8
iter = 17711, queue = 24025, heur = -8.0, depth = 8
iter = 17712, queue = 24028, heur = -8.0, depth = 8
iter = 17713, queue = 24031, heur = -8.0, depth = 8
iter = 17714, queue = 24034, heur = -8.0, depth = 8
iter = 17715, queue = 24037, heur = -8.0, depth = 8
iter = 17716, queue = 24040, heur = -8.0, depth = 8
iter = 17717, queue = 24042, heur = -8.0, depth = 8
iter = 17718, queue = 24045, heur = -8.0, depth = 8
iter = 17719, queue = 24044, heur = -8.0, depth = 8
iter = 17720, queue = 24044, heur = -8.0, depth = 8
iter = 17721, queue = 24045, heur = -8.0, depth = 8
iter = 17722, queue = 24048, heur = -8.0, depth = 8
iter = 17723, queue = 24051, heur = -8.0, depth = 8
iter = 17724, queue = 24053, heur = -8.0, depth = 8
iter = 17725, queue = 24053, heur = -8.0, depth = 8
iter = 17726, queue = 24056, heur = -8.0, depth = 8
iter = 17727, queue = 24059, heur = -8.0, depth = 8
iter = 17728, queue = 24062, heur = -8.0, depth = 10
iter = 17729, queue = 24062, heur = -8.0, depth = 8
iter = 17730, queue = 24065, heur = -8.0, depth = 8
iter = 17731, queue = 24065, heur = -8.0, depth = 10
iter = 17732, queue = 24066, heur = -8.0, depth = 8
iter = 17733, queue = 24066, heur = -8.0, depth = 8
iter = 17734, queue = 24069, heur = -8.0, depth = 8
iter = 17735, queue = 24068, heur = -8.0, depth = 8
iter = 17736, queue = 24067, heur = -8.0, depth = 8
iter = 17737, queue = 24069, heur = -8.0, depth = 8
iter = 17738, queue = 24070, heur = -8.0, depth = 8
iter = 17739, queue = 24071, heur = -8.0, depth = 8
iter = 17740, queue = 24074, heur = -8.0, depth = 8
iter = 17741, queue = 24074, heur = -8.0, depth = 8
iter = 17742, queue = 24073, heur = -8.0, depth = 8
iter = 17743, queue = 24072, heur = -8.0, depth = 8
iter = 17744, queue = 24074, heur = -8.0, depth = 8
iter = 17745, queue = 24075, heur = -8.0, depth = 8
iter = 17746, queue = 24076, heur = -8.0, depth = 8
iter = 17747, queue = 24077, heur = -8.0, depth = 8
iter = 17748, queue = 24078, heur = -8.0, depth = 8
iter = 17749, queue = 24079, heur = -8.0, depth = 8
iter = 17750, queue = 24082, heur = -8.0, depth = 8
iter = 17751, queue = 24081, heur = -8.0, depth = 8
iter = 17752, queue = 24080, heur = -8.0, depth = 8
iter = 17753, queue = 24081, heur = -8.0, depth = 8
iter = 17754, queue = 24081, heur = -8.0, depth = 8
iter = 17755, queue = 24080, heur = -8.0, depth = 8
iter = 17756, queue = 24081, heur = -8.0, depth = 8
iter = 17757, queue = 24082, heur = -8.0, depth = 8
iter = 17758, queue = 24083, heur = -8.0, depth = 8
iter = 17759, queue = 24084, heur = -8.0, depth = 8
iter = 17760, queue = 24086, heur = -8.0, depth = 8
iter = 17761, queue = 24087, heur = -8.0, depth = 8
```

```
iter = 17762, queue = 24090, heur = -8.0, depth = 8
iter = 17763, queue = 24090, heur = -8.0, depth = 8
iter = 17764, queue = 24091, heur = -8.0, depth = 8
iter = 17765, queue = 24093, heur = -8.0, depth = 8
iter = 17766, queue = 24096, heur = -8.0, depth = 8
iter = 17767, queue = 24096, heur = -8.0, depth = 8
iter = 17768, queue = 24097, heur = -8.0, depth = 8
iter = 17769, queue = 24100, heur = -8.0, depth = 8
iter = 17770, queue = 24103, heur = -8.0, depth = 8
iter = 17771, queue = 24103, heur = -8.0, depth = 8
iter = 17772, queue = 24104, heur = -8.0, depth = 8
iter = 17773, queue = 24105, heur = -8.0, depth = 8
iter = 17774, queue = 24108, heur = -8.0, depth = 8
iter = 17775, queue = 24109, heur = -8.0, depth = 8
iter = 17776, queue = 24110, heur = -8.0, depth = 8
iter = 17777, queue = 24111, heur = -8.0, depth = 8
iter = 17778, queue = 24113, heur = -8.0, depth = 8
iter = 17779, queue = 24116, heur = -8.0, depth = 8
iter = 17780, queue = 24117, heur = -8.0, depth = 8
iter = 17781, queue = 24118, heur = -8.0, depth = 8
iter = 17782, queue = 24118, heur = -8.0, depth = 8
iter = 17783, queue = 24120, heur = -8.0, depth = 8
iter = 17784, queue = 24121, heur = -8.0, depth = 8
iter = 17785, queue = 24122, heur = -8.0, depth = 8
iter = 17786, queue = 24124, heur = -8.0, depth = 8
iter = 17787, queue = 24126, heur = -8.0, depth = 8
iter = 17788, queue = 24128, heur = -8.0, depth = 8
iter = 17789, queue = 24131, heur = -8.0, depth = 8
iter = 17790, queue = 24133, heur = -8.0, depth = 8
iter = 17791, queue = 24134, heur = -8.0, depth = 8
iter = 17792, queue = 24133, heur = -8.0, depth = 8
iter = 17793, queue = 24134, heur = -8.0, depth = 8
iter = 17794, queue = 24137, heur = -8.0, depth = 8
iter = 17795, queue = 24138, heur = -8.0, depth = 8
iter = 17796, queue = 24139, heur = -8.0, depth = 8
iter = 17797, queue = 24139, heur = -8.0, depth = 8
iter = 17798, queue = 24140, heur = -8.0, depth = 8
iter = 17799, queue = 24142, heur = -8.0, depth = 8
iter = 17800, queue = 24144, heur = -8.0, depth = 8
iter = 17801, queue = 24144, heur = -8.0, depth = 8
iter = 17802, queue = 24145, heur = -8.0, depth = 8
iter = 17803, queue = 24146, heur = -8.0, depth = 8
iter = 17804, queue = 24146, heur = -8.0, depth = 8
iter = 17805, queue = 24146, heur = -8.0, depth = 8
iter = 17806, queue = 24146, heur = -8.0, depth = 8
iter = 17807, queue = 24148, heur = -8.0, depth = 8
iter = 17808, queue = 24149, heur = -8.0, depth = 8
iter = 17809, queue = 24148, heur = -8.0, depth = 8
iter = 17810, queue = 24149, heur = -8.0, depth = 8
iter = 17811, queue = 24150, heur = -8.0, depth = 9
iter = 17812, queue = 24151, heur = -8.0, depth = 8
iter = 17813, queue = 24151, heur = -8.0, depth = 8
iter = 17814, queue = 24154, heur = -8.0, depth = 8
iter = 17815, queue = 24154, heur = -8.0, depth = 8
iter = 17816, queue = 24154, heur = -8.0, depth = 8
iter = 17817, queue = 24155, heur = -8.0, depth = 8
iter = 17818, queue = 24157, heur = -8.0, depth = 8
iter = 17819, queue = 24160, heur = -8.0, depth = 8
iter = 17820, queue = 24162, heur = -8.0, depth = 8
```

```
iter = 17821, queue = 24165, heur = -8.0, depth = 8
iter = 17822, queue = 24168, heur = -8.0, depth = 9
iter = 17823, queue = 24170, heur = -8.0, depth = 8
iter = 17824, queue = 24172, heur = -8.0, depth = 8
iter = 17825, queue = 24173, heur = -8.0, depth = 8
iter = 17826, queue = 24176, heur = -8.0, depth = 10
iter = 17827, queue = 24178, heur = -8.0, depth = 10
iter = 17828, queue = 24181, heur = -8.0, depth = 8
iter = 17829, queue = 24184, heur = -8.0, depth = 8
iter = 17830, queue = 24185, heur = -8.0, depth = 8
iter = 17831, queue = 24187, heur = -8.0, depth = 8
iter = 17832, queue = 24188, heur = -8.0, depth = 8
iter = 17833, queue = 24189, heur = -8.0, depth = 8
iter = 17834, queue = 24192, heur = -8.0, depth = 8
iter = 17835, queue = 24193, heur = -8.0, depth = 8
iter = 17836, queue = 24194, heur = -8.0, depth = 8
iter = 17837, queue = 24195, heur = -8.0, depth = 8
iter = 17838, queue = 24196, heur = -8.0, depth = 8
iter = 17839, queue = 24195, heur = -8.0, depth = 8
iter = 17840, queue = 24195, heur = -8.0, depth = 8
iter = 17841, queue = 24194, heur = -8.0, depth = 8
iter = 17842, queue = 24195, heur = -8.0, depth = 8
iter = 17843, queue = 24196, heur = -8.0, depth = 8
iter = 17844, queue = 24197, heur = -8.0, depth = 8
iter = 17845, queue = 24197, heur = -8.0, depth = 8
iter = 17846, queue = 24198, heur = -8.0, depth = 8
iter = 17847, queue = 24197, heur = -8.0, depth = 8
iter = 17848, queue = 24199, heur = -8.0, depth = 8
iter = 17849, queue = 24201, heur = -8.0, depth = 8
iter = 17850, queue = 24202, heur = -8.0, depth = 8
iter = 17851, queue = 24202, heur = -8.0, depth = 8
iter = 17852, queue = 24203, heur = -8.0, depth = 8
iter = 17853, queue = 24204, heur = -8.0, depth = 8
iter = 17854, queue = 24205, heur = -8.0, depth = 8
iter = 17855, queue = 24206, heur = -8.0, depth = 8
iter = 17856, queue = 24209, heur = -8.0, depth = 8
iter = 17857, queue = 24212, heur = -8.0, depth = 8
iter = 17858, queue = 24212, heur = -8.0, depth = 8
iter = 17859, queue = 24213, heur = -8.0, depth = 8
iter = 17860, queue = 24212, heur = -8.0, depth = 8
iter = 17861, queue = 24212, heur = -8.0, depth = 8
iter = 17862, queue = 24212, heur = -8.0, depth = 8
iter = 17863, queue = 24214, heur = -8.0, depth = 8
iter = 17864, queue = 24215, heur = -8.0, depth = 8
iter = 17865, queue = 24216, heur = -8.0, depth = 8
iter = 17866, queue = 24217, heur = -8.0, depth = 8
iter = 17867, queue = 24218, heur = -8.0, depth = 8
iter = 17868, queue = 24219, heur = -8.0, depth = 8
iter = 17869, queue = 24220, heur = -8.0, depth = 8
iter = 17870, queue = 24223, heur = -8.0, depth = 8
iter = 17871, queue = 24224, heur = -8.0, depth = 8
iter = 17872, queue = 24225, heur = -8.0, depth = 8
iter = 17873, queue = 24226, heur = -8.0, depth = 8
iter = 17874, queue = 24227, heur = -8.0, depth = 8
iter = 17875, queue = 24228, heur = -8.0, depth = 8
iter = 17876, queue = 24229, heur = -8.0, depth = 8
iter = 17877, queue = 24230, heur = -8.0, depth = 8
iter = 17878, queue = 24231, heur = -8.0, depth = 8
iter = 17879, queue = 24234, heur = -8.0, depth = 8
```

```
iter = 17880, queue = 24235, heur = -8.0, depth = 8
iter = 17881, queue = 24236, heur = -8.0, depth = 8
iter = 17882, queue = 24237, heur = -8.0, depth = 8
iter = 17883, queue = 24240, heur = -8.0, depth = 8
iter = 17884, queue = 24242, heur = -8.0, depth = 9
iter = 17885, queue = 24244, heur = -8.0, depth = 8
iter = 17886, queue = 24245, heur = -8.0, depth = 8
iter = 17887, queue = 24248, heur = -8.0, depth = 8
iter = 17888, queue = 24249, heur = -8.0, depth = 10
iter = 17889, queue = 24250, heur = -8.0, depth = 8
iter = 17890, queue = 24249, heur = -8.0, depth = 8
iter = 17891, queue = 24250, heur = -8.0, depth = 8
iter = 17892, queue = 24251, heur = -8.0, depth = 8
iter = 17893, queue = 24250, heur = -8.0, depth = 8
iter = 17894, queue = 24252, heur = -8.0, depth = 8
iter = 17895, queue = 24255, heur = -8.0, depth = 8
iter = 17896, queue = 24257, heur = -8.0, depth = 8
iter = 17897, queue = 24258, heur = -8.0, depth = 8
iter = 17898, queue = 24260, heur = -8.0, depth = 8
iter = 17899, queue = 24261, heur = -8.0, depth = 8
iter = 17900, queue = 24264, heur = -8.0, depth = 8
iter = 17901, queue = 24264, heur = -8.0, depth = 8
iter = 17902, queue = 24264, heur = -8.0, depth = 8
iter = 17903, queue = 24266, heur = -8.0, depth = 8
iter = 17904, queue = 24267, heur = -8.0, depth = 8
iter = 17905, queue = 24268, heur = -8.0, depth = 8
iter = 17906, queue = 24268, heur = -8.0, depth = 8
iter = 17907, queue = 24268, heur = -8.0, depth = 9
iter = 17908, queue = 24269, heur = -8.0, depth = 8
iter = 17909, queue = 24268, heur = -8.0, depth = 8
iter = 17910, queue = 24268, heur = -8.0, depth = 8
iter = 17911, queue = 24270, heur = -8.0, depth = 8
iter = 17912, queue = 24269, heur = -8.0, depth = 8
iter = 17913, queue = 24272, heur = -8.0, depth = 8
iter = 17914, queue = 24271, heur = -8.0, depth = 8
iter = 17915, queue = 24272, heur = -8.0, depth = 8
iter = 17916, queue = 24274, heur = -8.0, depth = 8
iter = 17917, queue = 24273, heur = -8.0, depth = 8
iter = 17918, queue = 24274, heur = -8.0, depth = 8
iter = 17919, queue = 24277, heur = -8.0, depth = 8
iter = 17920, queue = 24278, heur = -8.0, depth = 8
iter = 17921, queue = 24278, heur = -8.0, depth = 8
iter = 17922, queue = 24278, heur = -8.0, depth = 8
iter = 17923, queue = 24279, heur = -8.0, depth = 8
iter = 17924, queue = 24280, heur = -8.0, depth = 8
iter = 17925, queue = 24281, heur = -8.0, depth = 8
iter = 17926, queue = 24282, heur = -8.0, depth = 8
iter = 17927, queue = 24281, heur = -8.0, depth = 8
iter = 17928, queue = 24281, heur = -8.0, depth = 8
iter = 17929, queue = 24283, heur = -8.0, depth = 8
iter = 17930, queue = 24284, heur = -8.0, depth = 8
iter = 17931, queue = 24285, heur = -8.0, depth = 8
iter = 17932, queue = 24285, heur = -8.0, depth = 8
iter = 17933, queue = 24286, heur = -8.0, depth = 8
iter = 17934, queue = 24286, heur = -8.0, depth = 8
iter = 17935, queue = 24288, heur = -8.0, depth = 8
iter = 17936, queue = 24288, heur = -8.0, depth = 8
iter = 17937, queue = 24291, heur = -8.0, depth = 8
iter = 17938, queue = 24294, heur = -8.0, depth = 8
```

```
iter = 17939, queue = 24293, heur = -8.0, depth = 8
iter = 17940, queue = 24294, heur = -8.0, depth = 8
iter = 17941, queue = 24295, heur = -8.0, depth = 8
iter = 17942, queue = 24296, heur = -8.0, depth = 8
iter = 17943, queue = 24295, heur = -8.0, depth = 8
iter = 17944, queue = 24296, heur = -8.0, depth = 8
iter = 17945, queue = 24297, heur = -8.0, depth = 8
iter = 17946, queue = 24298, heur = -8.0, depth = 8
iter = 17947, queue = 24301, heur = -8.0, depth = 8
iter = 17948, queue = 24302, heur = -8.0, depth = 8
iter = 17949, queue = 24303, heur = -8.0, depth = 8
iter = 17950, queue = 24304, heur = -8.0, depth = 8
iter = 17951, queue = 24306, heur = -8.0, depth = 8
iter = 17952, queue = 24305, heur = -8.0, depth = 8
iter = 17953, queue = 24305, heur = -8.0, depth = 8
iter = 17954, queue = 24305, heur = -8.0, depth = 8
iter = 17955, queue = 24308, heur = -8.0, depth = 8
iter = 17956, queue = 24309, heur = -8.0, depth = 8
iter = 17957, queue = 24311, heur = -8.0, depth = 8
iter = 17958, queue = 24312, heur = -8.0, depth = 8
iter = 17959, queue = 24313, heur = -8.0, depth = 8
iter = 17960, queue = 24314, heur = -8.0, depth = 8
iter = 17961, queue = 24315, heur = -8.0, depth = 11
iter = 17962, queue = 24316, heur = -8.0, depth = 8
iter = 17963, queue = 24317, heur = -8.0, depth = 8
iter = 17964, queue = 24318, heur = -8.0, depth = 8
iter = 17965, queue = 24320, heur = -8.0, depth = 12
iter = 17966, queue = 24321, heur = -8.0, depth = 8
iter = 17967, queue = 24321, heur = -8.0, depth = 8
iter = 17968, queue = 24321, heur = -8.0, depth = 8
iter = 17969, queue = 24321, heur = -8.0, depth = 8
iter = 17970, queue = 24324, heur = -8.0, depth = 8
iter = 17971, queue = 24324, heur = -8.0, depth = 8
iter = 17972, queue = 24326, heur = -8.0, depth = 8
iter = 17973, queue = 24329, heur = -8.0, depth = 8
iter = 17974, queue = 24328, heur = -8.0, depth = 8
iter = 17975, queue = 24328, heur = -8.0, depth = 8
iter = 17976, queue = 24329, heur = -8.0, depth = 8
iter = 17977, queue = 24330, heur = -8.0, depth = 8
iter = 17978, queue = 24331, heur = -8.0, depth = 8
iter = 17979, queue = 24332, heur = -8.0, depth = 8
iter = 17980, queue = 24333, heur = -8.0, depth = 8
iter = 17981, queue = 24334, heur = -8.0, depth = 8
iter = 17982, queue = 24335, heur = -8.0, depth = 9
iter = 17983, queue = 24335, heur = -8.0, depth = 8
iter = 17984, queue = 24336, heur = -8.0, depth = 8
iter = 17985, queue = 24336, heur = -8.0, depth = 8
iter = 17986, queue = 24337, heur = -8.0, depth = 9
iter = 17987, queue = 24338, heur = -8.0, depth = 8
iter = 17988, queue = 24338, heur = -8.0, depth = 8
iter = 17989, queue = 24339, heur = -8.0, depth = 8
iter = 17990, queue = 24340, heur = -8.0, depth = 8
iter = 17991, queue = 24340, heur = -8.0, depth = 8
iter = 17992, queue = 24343, heur = -8.0, depth = 8
iter = 17993, queue = 24343, heur = -8.0, depth = 8
iter = 17994, queue = 24344, heur = -8.0, depth = 8
iter = 17995, queue = 24343, heur = -8.0, depth = 8
iter = 17996, queue = 24344, heur = -8.0, depth = 8
iter = 17997, queue = 24343, heur = -8.0, depth = 8
```

```
iter = 17998, queue = 24343, heur = -8.0, depth = 8
iter = 17999, queue = 24345, heur = -8.0, depth = 8
iter = 18000, queue = 24348, heur = -8.0, depth = 8
iter = 18001, queue = 24348, heur = -8.0, depth = 8
iter = 18002, queue = 24350, heur = -8.0, depth = 8
iter = 18003, queue = 24351, heur = -8.0, depth = 8
iter = 18004, queue = 24351, heur = -8.0, depth = 8
iter = 18005, queue = 24350, heur = -8.0, depth = 8
iter = 18006, queue = 24349, heur = -8.0, depth = 8
iter = 18007, queue = 24350, heur = -8.0, depth = 8
iter = 18008, queue = 24353, heur = -8.0, depth = 8
iter = 18009, queue = 24354, heur = -8.0, depth = 8
iter = 18010, queue = 24357, heur = -8.0, depth = 8
iter = 18011, queue = 24357, heur = -8.0, depth = 8
iter = 18012, queue = 24356, heur = -8.0, depth = 8
iter = 18013, queue = 24356, heur = -8.0, depth = 8
iter = 18014, queue = 24357, heur = -8.0, depth = 8
iter = 18015, queue = 24358, heur = -8.0, depth = 8
iter = 18016, queue = 24357, heur = -8.0, depth = 8
iter = 18017, queue = 24358, heur = -8.0, depth = 8
iter = 18018, queue = 24359, heur = -8.0, depth = 8
iter = 18019, queue = 24358, heur = -8.0, depth = 8
iter = 18020, queue = 24359, heur = -8.0, depth = 8
iter = 18021, queue = 24361, heur = -8.0, depth = 8
iter = 18022, queue = 24363, heur = -8.0, depth = 8
iter = 18023, queue = 24366, heur = -8.0, depth = 8
iter = 18024, queue = 24367, heur = -8.0, depth = 8
iter = 18025, queue = 24366, heur = -8.0, depth = 8
iter = 18026, queue = 24366, heur = -8.0, depth = 8
iter = 18027, queue = 24367, heur = -8.0, depth = 8
iter = 18028, queue = 24368, heur = -8.0, depth = 8
iter = 18029, queue = 24370, heur = -8.0, depth = 8
iter = 18030, queue = 24371, heur = -8.0, depth = 8
iter = 18031, queue = 24374, heur = -8.0, depth = 8
iter = 18032, queue = 24375, heur = -8.0, depth = 8
iter = 18033, queue = 24376, heur = -8.0, depth = 8
iter = 18034, queue = 24376, heur = -8.0, depth = 8
iter = 18035, queue = 24377, heur = -8.0, depth = 8
iter = 18036, queue = 24378, heur = -8.0, depth = 8
iter = 18037, queue = 24379, heur = -8.0, depth = 8
iter = 18038, queue = 24380, heur = -8.0, depth = 8
iter = 18039, queue = 24381, heur = -8.0, depth = 8
iter = 18040, queue = 24382, heur = -8.0, depth = 8
iter = 18041, queue = 24383, heur = -8.0, depth = 8
iter = 18042, queue = 24384, heur = -8.0, depth = 8
iter = 18043, queue = 24387, heur = -8.0, depth = 8
iter = 18044, queue = 24389, heur = -8.0, depth = 8
iter = 18045, queue = 24390, heur = -8.0, depth = 8
iter = 18046, queue = 24392, heur = -8.0, depth = 8
iter = 18047, queue = 24391, heur = -8.0, depth = 8
iter = 18048, queue = 24392, heur = -8.0, depth = 8
iter = 18049, queue = 24393, heur = -8.0, depth = 8
iter = 18050, queue = 24393, heur = -8.0, depth = 8
iter = 18051, queue = 24394, heur = -8.0, depth = 8
iter = 18052, queue = 24394, heur = -8.0, depth = 8
iter = 18053, queue = 24395, heur = -8.0, depth = 8
iter = 18054, queue = 24398, heur = -8.0, depth = 8
iter = 18055, queue = 24399, heur = -8.0, depth = 8
iter = 18056, queue = 24400, heur = -8.0, depth = 8
```

```
iter = 18057, queue = 24400, heur = -8.0, depth = 8
iter = 18058, queue = 24399, heur = -8.0, depth = 9
iter = 18059, queue = 24400, heur = -8.0, depth = 8
iter = 18060, queue = 24401, heur = -8.0, depth = 8
iter = 18061, queue = 24401, heur = -8.0, depth = 8
iter = 18062, queue = 24401, heur = -8.0, depth = 8
iter = 18063, queue = 24403, heur = -8.0, depth = 8
iter = 18064, queue = 24403, heur = -8.0, depth = 8
iter = 18065, queue = 24402, heur = -8.0, depth = 8
iter = 18066, queue = 24404, heur = -8.0, depth = 8
iter = 18067, queue = 24405, heur = -8.0, depth = 8
iter = 18068, queue = 24406, heur = -8.0, depth = 8
iter = 18069, queue = 24405, heur = -8.0, depth = 8
iter = 18070, queue = 24405, heur = -8.0, depth = 8
iter = 18071, queue = 24406, heur = -8.0, depth = 8
iter = 18072, queue = 24407, heur = -8.0, depth = 8
iter = 18073, queue = 24407, heur = -8.0, depth = 8
iter = 18074, queue = 24407, heur = -8.0, depth = 8
iter = 18075, queue = 24408, heur = -8.0, depth = 8
iter = 18076, queue = 24411, heur = -8.0, depth = 8
iter = 18077, queue = 24414, heur = -8.0, depth = 8
iter = 18078, queue = 24415, heur = -8.0, depth = 8
iter = 18079, queue = 24417, heur = -8.0, depth = 8
iter = 18080, queue = 24418, heur = -8.0, depth = 8
iter = 18081, queue = 24417, heur = -8.0, depth = 8
iter = 18082, queue = 24418, heur = -8.0, depth = 8
iter = 18083, queue = 24419, heur = -8.0, depth = 8
iter = 18084, queue = 24419, heur = -8.0, depth = 8
iter = 18085, queue = 24418, heur = -8.0, depth = 8
iter = 18086, queue = 24419, heur = -8.0, depth = 8
iter = 18087, queue = 24419, heur = -8.0, depth = 8
iter = 18088, queue = 24420, heur = -8.0, depth = 8
iter = 18089, queue = 24420, heur = -8.0, depth = 8
iter = 18090, queue = 24423, heur = -8.0, depth = 8
iter = 18091, queue = 24426, heur = -8.0, depth = 8
iter = 18092, queue = 24428, heur = -8.0, depth = 8
iter = 18093, queue = 24430, heur = -8.0, depth = 8
iter = 18094, queue = 24432, heur = -8.0, depth = 8
iter = 18095, queue = 24435, heur = -8.0, depth = 8
iter = 18096, queue = 24438, heur = -8.0, depth = 8
iter = 18097, queue = 24439, heur = -8.0, depth = 8
iter = 18098, queue = 24438, heur = -8.0, depth = 8
iter = 18099, queue = 24437, heur = -8.0, depth = 8
iter = 18100, queue = 24437, heur = -8.0, depth = 8
iter = 18101, queue = 24437, heur = -8.0, depth = 8
iter = 18102, queue = 24438, heur = -8.0, depth = 8
iter = 18103, queue = 24441, heur = -8.0, depth = 8
iter = 18104, queue = 24442, heur = -8.0, depth = 8
iter = 18105, queue = 24443, heur = -8.0, depth = 8
iter = 18106, queue = 24444, heur = -8.0, depth = 8
iter = 18107, queue = 24445, heur = -8.0, depth = 8
iter = 18108, queue = 24447, heur = -8.0, depth = 8
iter = 18109, queue = 24449, heur = -8.0, depth = 8
iter = 18110, queue = 24448, heur = -8.0, depth = 14
iter = 18111, queue = 24449, heur = -8.0, depth = 8
iter = 18112, queue = 24450, heur = -8.0, depth = 8
iter = 18113, queue = 24449, heur = -8.0, depth = 8
iter = 18114, queue = 24451, heur = -8.0, depth = 8
iter = 18115, queue = 24450, heur = -8.0, depth = 8
```

```
iter = 18116, queue = 24451, heur = -8.0, depth = 8
iter = 18117, queue = 24451, heur = -8.0, depth = 8
iter = 18118, queue = 24452, heur = -8.0, depth = 8
iter = 18119, queue = 24454, heur = -8.0, depth = 8
iter = 18120, queue = 24453, heur = -8.0, depth = 8
iter = 18121, queue = 24454, heur = -8.0, depth = 8
iter = 18122, queue = 24455, heur = -8.0, depth = 8
iter = 18123, queue = 24455, heur = -8.0, depth = 8
iter = 18124, queue = 24456, heur = -8.0, depth = 8
iter = 18125, queue = 24457, heur = -8.0, depth = 8
iter = 18126, queue = 24458, heur = -8.0, depth = 8
iter = 18127, queue = 24458, heur = -8.0, depth = 8
iter = 18128, queue = 24461, heur = -8.0, depth = 8
iter = 18129, queue = 24462, heur = -8.0, depth = 8
iter = 18130, queue = 24463, heur = -8.0, depth = 8
iter = 18131, queue = 24466, heur = -8.0, depth = 8
iter = 18132, queue = 24469, heur = -8.0, depth = 8
iter = 18133, queue = 24471, heur = -8.0, depth = 8
iter = 18134, queue = 24473, heur = -8.0, depth = 8
iter = 18135, queue = 24476, heur = -8.0, depth = 8
iter = 18136, queue = 24479, heur = -8.0, depth = 8
iter = 18137, queue = 24480, heur = -8.0, depth = 8
iter = 18138, queue = 24479, heur = -8.0, depth = 8
iter = 18139, queue = 24479, heur = -8.0, depth = 8
iter = 18140, queue = 24482, heur = -8.0, depth = 8
iter = 18141, queue = 24484, heur = -8.0, depth = 8
iter = 18142, queue = 24485, heur = -8.0, depth = 8
iter = 18143, queue = 24486, heur = -8.0, depth = 8
iter = 18144, queue = 24487, heur = -8.0, depth = 8
iter = 18145, queue = 24490, heur = -8.0, depth = 8
iter = 18146, queue = 24491, heur = -8.0, depth = 8
iter = 18147, queue = 24490, heur = -8.0, depth = 8
iter = 18148, queue = 24492, heur = -8.0, depth = 8
iter = 18149, queue = 24492, heur = -8.0, depth = 8
iter = 18150, queue = 24492, heur = -8.0, depth = 8
iter = 18151, queue = 24493, heur = -8.0, depth = 8
iter = 18152, queue = 24495, heur = -8.0, depth = 8
iter = 18153, queue = 24498, heur = -8.0, depth = 8
iter = 18154, queue = 24501, heur = -8.0, depth = 8
iter = 18155, queue = 24500, heur = -8.0, depth = 8
iter = 18156, queue = 24503, heur = -8.0, depth = 8
iter = 18157, queue = 24506, heur = -8.0, depth = 8
iter = 18158, queue = 24507, heur = -8.0, depth = 8
iter = 18159, queue = 24510, heur = -8.0, depth = 8
iter = 18160, queue = 24509, heur = -8.0, depth = 8
iter = 18161, queue = 24510, heur = -8.0, depth = 8
iter = 18162, queue = 24510, heur = -8.0, depth = 8
iter = 18163, queue = 24511, heur = -8.0, depth = 8
iter = 18164, queue = 24514, heur = -8.0, depth = 8
iter = 18165, queue = 24514, heur = -8.0, depth = 8
iter = 18166, queue = 24515, heur = -8.0, depth = 8
iter = 18167, queue = 24516, heur = -8.0, depth = 8
iter = 18168, queue = 24518, heur = -8.0, depth = 8
iter = 18169, queue = 24519, heur = -8.0, depth = 8
iter = 18170, queue = 24520, heur = -8.0, depth = 8
iter = 18171, queue = 24522, heur = -8.0, depth = 8
iter = 18172, queue = 24521, heur = -8.0, depth = 8
iter = 18173, queue = 24520, heur = -8.0, depth = 8
iter = 18174, queue = 24522, heur = -8.0, depth = 15
```

```
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', 'I', 'F']
['A', 'B', 'C']
                 STATE 2
['H', 'D']
['G', 'I', 'F', 'E']
['A', 'B', 'C']
                 STATE 3____
['H']
['G', 'I', 'F', 'E', 'D']
['A', 'B', 'C']
                 STATE 4_____
['G', 'I', 'F', 'E', 'D', 'H']
['A', 'B', 'C']
                 STATE 5_____
['G', 'I', 'F', 'E', 'D', 'H', 'C']
['A', 'B']
          STATE 6
['G', 'I', 'F', 'E', 'D', 'H', 'C', 'B']
['A']
              STATE 7
['G', 'I', 'F', 'E', 'D', 'H', 'C', 'B']
                STATE 8
['A', 'B']
['G', 'I', 'F', 'E', 'D', 'H', 'C']
STATE 9_____
['A', 'B', 'C']
['G', 'I', 'F', 'E', 'D', 'H']
              STATE 10_____
['A', 'B', 'C']
['G', 'I', 'F', 'E', 'D']
['H']
                 STATE 11
['A', 'B', 'C', 'D']
['G', 'I', 'F', 'E']
['H']
                 STATE 12
['A', 'B', 'C', 'D', 'E']
['G', 'I', 'F']
['H']
                 STATE 13____
['A', 'B', 'C', 'D', 'E', 'F']
['G', 'I']
['H']
```

```
STATE 14
['A', 'B', 'C', 'D', 'E', 'F']
['G']
['H', 'I']
                     STATE 15
['A', 'B', 'C', 'D', 'E', 'F', 'G']
['H', 'I']
                     STATE 16
['A', 'B', 'C', 'D', 'E', 'F', 'G']
['I']
['H']
                     STATE 17
['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H']
STATE 18
['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'I']
\prod
П
Iterations: 18181
Path Length: 18
Maximum queue size: 24449
Number of states visited: 42629
Time taken: 3.85793399811 seconds
Initial State:
['A', 'B', 'H']
['I', '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']
['I', 'G', 'F', 'J']
['D', 'C', 'E']
                     STATE 2
```

```
['A', 'B']
['I', 'G', 'F', 'J', 'H']
['D', 'C', 'E']
                      STATE 3
['A', 'B']
['I', 'G', 'F', 'J', 'H', 'E']
['D', 'C']
                      STATE 4
['A', 'B', 'C']
['I', 'G', 'F', 'J', 'H', 'E']
['D']
                      STATE 5
['A', 'B', 'C', 'D']
['I', 'G', 'F', 'J', 'H', 'E']
STATE 6
['A', 'B', 'C', 'D', 'E']
['I', 'G', 'F', 'J', 'H']
                       STATE 7
['A', 'B', 'C', 'D', 'E']
['I', 'G', 'F', 'J']
['H']
                      STATE 8
['A', 'B', 'C', 'D', 'E']
['I', 'G', 'F']
['H', 'J']
                       STATE 9
['A', 'B', 'C', 'D', 'E', 'F']
['I', 'G']
['H', 'J']
                       STATE 10
['A', 'B', 'C', 'D', 'E', 'F', 'G']
['I']
['H', 'J']
                      STATE 11
['A', 'B', 'C', 'D', 'E', 'F', 'G']
['I', 'J']
['H']
                       STATE 12
['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H']
['I', 'J']
                       STATE 13
['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H']
['I']
['J']
                       STATE 14
['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'I']
['J']
                       STATE 15
['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'I', '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
iter = 187, queue = 454, heur = -2.0, depth = 4
iter = 188, queue = 457, heur = -2.0, depth = 4
iter = 189, queue = 460, heur = -2.0, depth = 4
iter = 190, queue = 461, heur = -2.0, depth = 3
iter = 191, queue = 464, heur = -2.0, depth = 4
iter = 192, queue = 466, heur = -2.0, depth = 4
iter = 193, queue = 469, heur = -2.0, depth = 4
iter = 194, queue = 472, heur = -2.0, depth = 4
iter = 195, queue = 475, heur = -2.0, depth = 4
iter = 196, queue = 476, heur = -2.0, depth = 4
iter = 197, queue = 477, heur = -2.0, depth = 4
iter = 198, queue = 478, heur = -2.0, depth = 4
iter = 199, queue = 480, heur = -2.0, depth = 3
iter = 200, queue = 483, heur = -2.0, depth = 4
iter = 201, queue = 486, heur = -2.0, depth = 4
iter = 202, queue = 487, heur = -2.0, depth = 4
iter = 203, queue = 490, heur = -2.0, depth = 4
iter = 204, queue = 493, heur = -2.0, depth = 4
iter = 205, queue = 496, heur = -2.0, depth = 4
iter = 206, queue = 497, heur = -2.0, depth = 4
iter = 207, queue = 498, heur = -2.0, depth = 4
iter = 208, queue = 500, heur = -2.0, depth = 5
iter = 209, queue = 501, heur = -2.0, depth = 4
iter = 210, queue = 504, heur = -2.0, depth = 5
iter = 211, queue = 507, heur = -2.0, depth = 4
iter = 212, queue = 510, heur = -2.0, depth = 4
iter = 213, queue = 511, heur = -2.0, depth = 4
iter = 214, queue = 512, heur = -2.0, depth = 4
iter = 215, queue = 515, heur = -2.0, depth = 4
iter = 216, queue = 518, heur = -2.0, depth = 4
iter = 217, queue = 521, heur = -2.0, depth = 4
iter = 218, queue = 523, heur = -2.0, depth = 4
iter = 219, queue = 526, heur = -2.0, depth = 4
iter = 220, queue = 529, heur = -2.0, depth = 3
iter = 221, queue = 530, heur = -2.0, depth = 4
iter = 222, queue = 531, heur = -2.0, depth = 4
iter = 223, queue = 532, heur = -2.0, depth = 4
iter = 224, queue = 535, heur = -2.0, depth = 4
iter = 225, queue = 536, heur = -2.0, depth = 5
iter = 226, queue = 539, heur = -2.0, depth = 4
iter = 227, queue = 542, heur = -2.0, depth = 4
iter = 228, queue = 542, heur = -2.0, depth = 4
iter = 229, queue = 544, heur = -2.0, depth = 5
iter = 230, queue = 544, heur = -2.0, depth = 4
iter = 231, queue = 545, heur = -2.0, depth = 5
iter = 232, queue = 546, heur = -2.0, depth = 5
iter = 233, queue = 547, heur = -2.0, depth = 3
```

```
iter = 234, queue = 550, heur = -2.0, depth = 4
iter = 235, queue = 551, heur = -2.0, depth = 5
iter = 236, queue = 554, heur = -2.0, depth = 5
iter = 237, queue = 555, heur = -2.0, depth = 6
iter = 238, queue = 556, heur = -2.0, depth = 4
iter = 239, queue = 555, heur = -2.0, depth = 6
iter = 240, queue = 558, heur = -2.0, depth = 4
iter = 241, queue = 559, heur = -2.0, depth = 4
iter = 242, queue = 562, heur = -2.0, depth = 4
iter = 243, queue = 563, heur = -2.0, depth = 4
iter = 244, queue = 564, heur = -2.0, depth = 4
iter = 245, queue = 565, heur = -2.0, depth = 4
iter = 246, queue = 568, heur = -2.0, depth = 4
iter = 247, queue = 571, heur = -2.0, depth = 4
iter = 248, queue = 573, heur = -2.0, depth = 4
iter = 249, queue = 576, heur = -2.0, depth = 4
iter = 250, queue = 577, heur = -2.0, depth = 7
iter = 251, queue = 580, heur = -2.0, depth = 7
iter = 252, queue = 583, heur = -2.0, depth = 4
iter = 253, queue = 585, heur = -2.0, depth = 3
iter = 254, queue = 588, heur = -2.0, depth = 4
iter = 255, queue = 589, heur = -2.0, depth = 4
iter = 256, queue = 592, heur = -2.0, depth = 4
iter = 257, queue = 594, heur = -2.0, depth = 4
iter = 258, queue = 597, heur = -2.0, depth = 4
iter = 259, queue = 599, heur = -2.0, depth = 4
iter = 260, queue = 602, heur = -2.0, depth = 4
iter = 261, queue = 604, heur = -2.0, depth = 4
iter = 262, queue = 607, heur = -2.0, depth = 4
iter = 263, queue = 610, heur = -2.0, depth = 4
iter = 264, queue = 612, heur = -2.0, depth = 4
iter = 265, queue = 614, heur = -2.0, depth = 6
iter = 266, queue = 615, heur = -2.0, depth = 4
iter = 267, queue = 618, heur = -2.0, depth = 7
iter = 268, queue = 619, heur = -2.0, depth = 4
iter = 269, queue = 620, heur = -2.0, depth = 3
iter = 270, queue = 622, heur = -2.0, depth = 4
iter = 271, queue = 625, heur = -2.0, depth = 5
iter = 272, queue = 627, heur = -2.0, depth = 7
iter = 273, queue = 630, heur = -2.0, depth = 4
iter = 274, queue = 633, heur = -2.0, depth = 4
iter = 275, queue = 633, heur = -2.0, depth = 4
iter = 276, queue = 636, heur = -2.0, depth = 4
iter = 277, queue = 639, heur = -2.0, depth = 4
iter = 278, queue = 641, heur = -2.0, depth = 5
iter = 279, queue = 641, heur = -2.0, depth = 4
iter = 280, queue = 644, heur = -2.0, depth = 4
iter = 281, queue = 647, heur = -2.0, depth = 4
iter = 282, queue = 649, heur = -2.0, depth = 3
iter = 283, queue = 652, heur = -2.0, depth = 4
iter = 284, queue = 655, heur = -2.0, depth = 4
iter = 285, queue = 658, heur = -2.0, depth = 4
iter = 286, queue = 659, heur = -2.0, depth = 4
iter = 287, queue = 662, heur = -2.0, depth = 4
iter = 288, queue = 663, heur = -2.0, depth = 4
iter = 289, queue = 665, heur = -2.0, depth = 4
iter = 290, queue = 667, heur = -2.0, depth = 4
iter = 291, queue = 668, heur = -2.0, depth = 4
iter = 292, queue = 669, heur = -2.0, depth = 4
```

```
iter = 293, queue = 670, heur = -2.0, depth = 4
iter = 294, queue = 671, heur = -2.0, depth = 4
iter = 295, queue = 674, heur = -2.0, depth = 4
iter = 296, queue = 676, heur = -2.0, depth = 4
iter = 297, queue = 678, heur = -2.0, depth = 5
iter = 298, queue = 681, heur = -2.0, depth = 4
iter = 299, queue = 684, heur = -2.0, depth = 4
iter = 300, queue = 687, heur = -2.0, depth = 6
iter = 301, queue = 688, heur = -2.0, depth = 8
iter = 302, queue = 691, heur = -2.0, depth = 4
iter = 303, queue = 691, heur = -2.0, depth = 7
iter = 304, queue = 690, heur = -2.0, depth = 9
iter = 305, queue = 693, heur = -2.0, depth = 4
iter = 306, queue = 695, heur = -2.0, depth = 4
iter = 307, queue = 696, heur = -2.0, depth = 4
iter = 308, queue = 697, heur = -2.0, depth = 4
iter = 309, queue = 699, heur = -2.0, depth = 4
iter = 310, queue = 701, heur = -2.0, depth = 4
iter = 311, queue = 704, heur = -2.0, depth = 3
iter = 312, queue = 707, heur = -2.0, depth = 4
iter = 313, queue = 708, heur = -2.0, depth = 4
iter = 314, queue = 710, heur = -2.0, depth = 4
iter = 315, queue = 713, heur = -2.0, depth = 3
iter = 316, queue = 716, heur = -2.0, depth = 4
iter = 317, queue = 718, heur = -2.0, depth = 4
iter = 318, queue = 719, heur = -2.0, depth = 4
iter = 319, queue = 722, heur = -2.0, depth = 4
iter = 320, queue = 723, heur = -2.0, depth = 3
iter = 321, queue = 726, heur = -2.0, depth = 4
iter = 322, queue = 728, heur = -2.0, depth = 4
iter = 323, queue = 729, heur = -2.0, depth = 3
iter = 324, queue = 731, heur = -2.0, depth = 4
iter = 325, queue = 733, heur = -2.0, depth = 4
iter = 326, queue = 734, heur = -2.0, depth = 4
iter = 327, queue = 737, heur = -2.0, depth = 4
iter = 328, queue = 738, heur = -2.0, depth = 4
iter = 329, queue = 741, heur = -2.0, depth = 4
iter = 330, queue = 742, heur = -2.0, depth = 4
iter = 331, queue = 745, heur = -2.0, depth = 4
iter = 332, queue = 746, heur = -2.0, depth = 4
iter = 333, queue = 747, heur = -2.0, depth = 5
iter = 334, queue = 750, heur = -2.0, depth = 4
iter = 335, queue = 752, heur = -2.0, depth = 4
iter = 336, queue = 755, heur = -2.0, depth = 6
iter = 337, queue = 756, heur = -2.0, depth = 4
iter = 338, queue = 759, heur = -2.0, depth = 4
iter = 339, queue = 762, heur = -2.0, depth = 4
iter = 340, queue = 765, heur = -2.0, depth = 4
iter = 341, queue = 768, heur = -2.0, depth = 4
iter = 342, queue = 771, heur = -2.0, depth = 4
iter = 343, queue = 772, heur = -2.0, depth = 4
iter = 344, queue = 775, heur = -2.0, depth = 4
iter = 345, queue = 778, heur = -2.0, depth = 4
iter = 346, queue = 779, heur = -2.0, depth = 4
iter = 347, queue = 780, heur = -2.0, depth = 4
iter = 348, queue = 781, heur = -2.0, depth = 4
iter = 349, queue = 782, heur = -2.0, depth = 4
iter = 350, queue = 783, heur = -2.0, depth = 4
iter = 351, queue = 784, heur = -2.0, depth = 4
```

```
iter = 352, queue = 787, heur = -2.0, depth = 4
iter = 353, queue = 790, heur = -2.0, depth = 4
iter = 354, queue = 793, heur = -2.0, depth = 4
iter = 355, queue = 795, heur = -3.0, depth = 5
iter = 356, queue = 797, heur = -3.0, depth = 5
iter = 357, queue = 800, heur = -3.0, depth = 5
iter = 358, queue = 803, heur = -3.0, depth = 5
iter = 359, queue = 804, heur = -3.0, depth = 5
iter = 360, queue = 803, heur = -3.0, depth = 5
iter = 361, queue = 805, heur = -3.0, depth = 4
iter = 362, queue = 808, heur = -3.0, depth = 5
iter = 363, queue = 811, heur = -3.0, depth = 5
iter = 364, queue = 814, heur = -3.0, depth = 5
iter = 365, queue = 817, heur = -3.0, depth = 5
iter = 366, queue = 820, heur = -3.0, depth = 5
iter = 367, queue = 822, heur = -3.0, depth = 5
iter = 368, queue = 823, heur = -3.0, depth = 7
iter = 369, queue = 826, heur = -3.0, depth = 5
iter = 370, queue = 828, heur = -3.0, depth = 5
iter = 371, queue = 829, heur = -3.0, depth = 6
iter = 372, queue = 830, heur = -3.0, depth = 5
iter = 373, queue = 832, heur = -3.0, depth = 6
iter = 374, queue = 835, heur = -3.0, depth = 6
iter = 375, queue = 838, heur = -3.0, depth = 5
iter = 376, queue = 839, heur = -3.0, depth = 5
iter = 377, queue = 842, heur = -3.0, depth = 5
iter = 378, queue = 845, heur = -3.0, depth = 5
iter = 379, queue = 848, heur = -3.0, depth = 5
iter = 380, queue = 851, heur = -3.0, depth = 5
iter = 381, queue = 853, heur = -3.0, depth = 5
iter = 382, queue = 854, heur = -3.0, depth = 6
iter = 383, queue = 855, heur = -3.0, depth = 5
iter = 384, queue = 857, heur = -3.0, depth = 4
iter = 385, queue = 860, heur = -3.0, depth = 4
iter = 386, queue = 863, heur = -3.0, depth = 5
iter = 387, queue = 864, heur = -3.0, depth = 5
iter = 388, queue = 867, heur = -3.0, depth = 5
iter = 389, queue = 870, heur = -3.0, depth = 5
iter = 390, queue = 872, heur = -3.0, depth = 4
iter = 391, queue = 875, heur = -3.0, depth = 5
iter = 392, queue = 876, heur = -3.0, depth = 5
iter = 393, queue = 879, heur = -3.0, depth = 4
iter = 394, queue = 882, heur = -3.0, depth = 5
iter = 395, queue = 883, heur = -3.0, depth = 5
iter = 396, queue = 886, heur = -3.0, depth = 5
iter = 397, queue = 888, heur = -3.0, depth = 5
iter = 398, queue = 889, heur = -3.0, depth = 5
iter = 399, queue = 890, heur = -3.0, depth = 5
iter = 400, queue = 891, heur = -3.0, depth = 4
iter = 401, queue = 894, heur = -3.0, depth = 5
iter = 402, queue = 896, heur = -3.0, depth = 4
iter = 403, queue = 899, heur = -3.0, depth = 5
iter = 404, queue = 901, heur = -3.0, depth = 5
iter = 405, queue = 902, heur = -3.0, depth = 5
iter = 406, queue = 905, heur = -3.0, depth = 5
iter = 407, queue = 906, heur = -3.0, depth = 5
iter = 408, queue = 907, heur = -3.0, depth = 5
iter = 409, queue = 909, heur = -3.0, depth = 4
iter = 410, queue = 910, heur = -3.0, depth = 5
```

```
iter = 411, queue = 912, heur = -3.0, depth = 5
iter = 412, queue = 915, heur = -3.0, depth = 4
iter = 413, queue = 918, heur = -3.0, depth = 5
iter = 414, queue = 921, heur = -3.0, depth = 5
iter = 415, queue = 922, heur = -3.0, depth = 5
iter = 416, queue = 925, heur = -3.0, depth = 5
iter = 417, queue = 928, heur = -3.0, depth = 5
iter = 418, queue = 930, heur = -3.0, depth = 5
iter = 419, queue = 932, heur = -3.0, depth = 5
iter = 420, queue = 935, heur = -3.0, depth = 5
iter = 421, queue = 936, heur = -3.0, depth = 4
iter = 422, queue = 939, heur = -3.0, depth = 5
iter = 423, queue = 942, heur = -3.0, depth = 5
iter = 424, queue = 943, heur = -3.0, depth = 5
iter = 425, queue = 944, heur = -3.0, depth = 4
iter = 426, queue = 947, heur = -3.0, depth = 5
iter = 427, queue = 950, heur = -3.0, depth = 5
iter = 428, queue = 953, heur = -3.0, depth = 5
iter = 429, queue = 953, heur = -3.0, depth = 5
iter = 430, queue = 954, heur = -3.0, depth = 4
iter = 431, queue = 957, heur = -3.0, depth = 5
iter = 432, queue = 958, heur = -3.0, depth = 4
iter = 433, queue = 961, heur = -3.0, depth = 5
iter = 434, queue = 962, heur = -3.0, depth = 5
iter = 435, queue = 963, heur = -3.0, depth = 5
iter = 436, queue = 964, heur = -3.0, depth = 5
iter = 437, queue = 967, heur = -3.0, depth = 5
iter = 438, queue = 970, heur = -3.0, depth = 5
iter = 439, queue = 973, heur = -3.0, depth = 5
iter = 440, queue = 975, heur = -3.0, depth = 5
iter = 441, queue = 977, heur = -3.0, depth = 5
iter = 442, queue = 980, heur = -3.0, depth = 5
iter = 443, queue = 983, heur = -3.0, depth = 5
iter = 444, queue = 984, heur = -3.0, depth = 5
iter = 445, queue = 987, heur = -3.0, depth = 4
iter = 446, queue = 990, heur = -3.0, depth = 5
iter = 447, queue = 991, heur = -3.0, depth = 5
iter = 448, queue = 992, heur = -3.0, depth = 5
iter = 449, queue = 995, heur = -3.0, depth = 5
iter = 450, queue = 996, heur = -3.0, depth = 5
iter = 451, queue = 999, heur = -3.0, depth = 5
iter = 452, queue = 1000, heur = -3.0, depth = 4
iter = 453, queue = 1003, heur = -3.0, depth = 5
iter = 454, queue = 1002, heur = -3.0, depth = 5
iter = 455, queue = 1005, heur = -3.0, depth = 5
iter = 456, queue = 1007, heur = -3.0, depth = 4
iter = 457, queue = 1010, heur = -3.0, depth = 4
iter = 458, queue = 1013, heur = -3.0, depth = 5
iter = 459, queue = 1014, heur = -3.0, depth = 5
iter = 460, queue = 1015, heur = -3.0, depth = 4
iter = 461, queue = 1018, heur = -3.0, depth = 5
iter = 462, queue = 1019, heur = -3.0, depth = 5
iter = 463, queue = 1022, heur = -3.0, depth = 5
iter = 464, queue = 1025, heur = -3.0, depth = 4
iter = 465, queue = 1028, heur = -3.0, depth = 5
iter = 466, queue = 1030, heur = -3.0, depth = 4
iter = 467, queue = 1032, heur = -3.0, depth = 4
iter = 468, queue = 1035, heur = -3.0, depth = 4
iter = 469, queue = 1037, heur = -3.0, depth = 5
```

```
iter = 470, queue = 1038, heur = -3.0, depth = 5
iter = 471, queue = 1039, heur = -3.0, depth = 5
iter = 472, queue = 1040, heur = -3.0, depth = 5
iter = 473, queue = 1041, heur = -3.0, depth = 5
iter = 474, queue = 1044, heur = -3.0, depth = 5
iter = 475, queue = 1045, heur = -3.0, depth = 5
iter = 476, queue = 1045, heur = -3.0, depth = 5
iter = 477, queue = 1048, heur = -3.0, depth = 5
iter = 478, queue = 1051, heur = -3.0, depth = 5
iter = 479, queue = 1054, heur = -3.0, depth = 5
iter = 480, queue = 1057, heur = -3.0, depth = 5
iter = 481, queue = 1060, heur = -3.0, depth = 5
iter = 482, queue = 1063, heur = -3.0, depth = 5
iter = 483, queue = 1066, heur = -3.0, depth = 5
iter = 484, queue = 1067, heur = -3.0, depth = 5
iter = 485, queue = 1068, heur = -3.0, depth = 5
iter = 486, queue = 1071, heur = -3.0, depth = 5
iter = 487, queue = 1074, heur = -3.0, depth = 5
iter = 488, queue = 1077, heur = -3.0, depth = 5
iter = 489, queue = 1078, heur = -3.0, depth = 5
iter = 490, queue = 1081, heur = -3.0, depth = 5
iter = 491, queue = 1084, heur = -3.0, depth = 5
iter = 492, queue = 1087, heur = -3.0, depth = 5
iter = 493, queue = 1090, heur = -3.0, depth = 5
iter = 494, queue = 1093, heur = -3.0, depth = 5
iter = 495, queue = 1094, heur = -3.0, depth = 5
iter = 496, queue = 1095, heur = -3.0, depth = 5
iter = 497, queue = 1096, heur = -3.0, depth = 5
iter = 498, queue = 1098, heur = -3.0, depth = 5
iter = 499, queue = 1099, heur = -3.0, depth = 5
iter = 500, queue = 1099, heur = -3.0, depth = 5
iter = 501, queue = 1100, heur = -3.0, depth = 5
iter = 502, queue = 1101, heur = -3.0, depth = 5
iter = 503, queue = 1102, heur = -3.0, depth = 5
iter = 504, queue = 1105, heur = -3.0, depth = 5
iter = 505, queue = 1108, heur = -3.0, depth = 5
iter = 506, queue = 1111, heur = -3.0, depth = 5
iter = 507, queue = 1114, heur = -3.0, depth = 5
iter = 508, queue = 1116, heur = -3.0, depth = 5
iter = 509, queue = 1117, heur = -3.0, depth = 5
iter = 510, queue = 1120, heur = -3.0, depth = 5
iter = 511, queue = 1122, heur = -3.0, depth = 5
iter = 512, queue = 1124, heur = -3.0, depth = 5
iter = 513, queue = 1127, heur = -3.0, depth = 5
iter = 514, queue = 1130, heur = -3.0, depth = 3
iter = 515, queue = 1131, heur = -3.0, depth = 5
iter = 516, queue = 1131, heur = -3.0, depth = 5
iter = 517, queue = 1132, heur = -3.0, depth = 4
iter = 518, queue = 1135, heur = -3.0, depth = 5
iter = 519, queue = 1136, heur = -3.0, depth = 5
iter = 520, queue = 1139, heur = -3.0, depth = 5
iter = 521, queue = 1142, heur = -3.0, depth = 5
iter = 522, queue = 1144, heur = -3.0, depth = 4
iter = 523, queue = 1146, heur = -3.0, depth = 5
iter = 524, queue = 1146, heur = -3.0, depth = 5
iter = 525, queue = 1147, heur = -3.0, depth = 5
iter = 526, queue = 1149, heur = -3.0, depth = 5
iter = 527, queue = 1151, heur = -3.0, depth = 5
iter = 528, queue = 1154, heur = -3.0, depth = 5
```

```
iter = 529, queue = 1157, heur = -3.0, depth = 5
iter = 530, queue = 1160, heur = -3.0, depth = 5
iter = 531, queue = 1163, heur = -3.0, depth = 5
iter = 532, queue = 1166, heur = -3.0, depth = 4
iter = 533, queue = 1169, heur = -3.0, depth = 5
iter = 534, queue = 1172, heur = -3.0, depth = 5
iter = 535, queue = 1175, heur = -3.0, depth = 5
iter = 536, queue = 1177, heur = -3.0, depth = 5
iter = 537, queue = 1180, heur = -3.0, depth = 5
iter = 538, queue = 1181, heur = -3.0, depth = 5
iter = 539, queue = 1184, heur = -3.0, depth = 5
iter = 540, queue = 1183, heur = -3.0, depth = 5
iter = 541, queue = 1185, heur = -3.0, depth = 5
iter = 542, queue = 1186, heur = -3.0, depth = 5
iter = 543, queue = 1189, heur = -3.0, depth = 5
iter = 544, queue = 1191, heur = -3.0, depth = 4
iter = 545, queue = 1193, heur = -3.0, depth = 5
iter = 546, queue = 1196, heur = -3.0, depth = 5
iter = 547, queue = 1197, heur = -3.0, depth = 5
iter = 548, queue = 1198, heur = -3.0, depth = 4
iter = 549, queue = 1201, heur = -3.0, depth = 5
iter = 550, queue = 1200, heur = -3.0, depth = 5
iter = 551, queue = 1201, heur = -3.0, depth = 5
iter = 552, queue = 1202, heur = -3.0, depth = 5
iter = 553, queue = 1203, heur = -3.0, depth = 5
iter = 554, queue = 1204, heur = -3.0, depth = 5
iter = 555, queue = 1205, heur = -3.0, depth = 5
iter = 556, queue = 1206, heur = -3.0, depth = 5
iter = 557, queue = 1207, heur = -3.0, depth = 5
iter = 558, queue = 1208, heur = -3.0, depth = 5
iter = 559, queue = 1211, heur = -3.0, depth = 5
iter = 560, queue = 1212, heur = -3.0, depth = 5
iter = 561, queue = 1213, heur = -3.0, depth = 5
iter = 562, queue = 1214, heur = -3.0, depth = 5
iter = 563, queue = 1217, heur = -3.0, depth = 5
iter = 564, queue = 1218, heur = -3.0, depth = 5
iter = 565, queue = 1221, heur = -3.0, depth = 5
iter = 566, queue = 1224, heur = -3.0, depth = 6
iter = 567, queue = 1227, heur = -3.0, depth = 5
iter = 568, queue = 1228, heur = -3.0, depth = 5
iter = 569, queue = 1231, heur = -3.0, depth = 5
iter = 570, queue = 1234, heur = -3.0, depth = 5
iter = 571, queue = 1237, heur = -3.0, depth = 5
iter = 572, queue = 1240, heur = -3.0, depth = 5
iter = 573, queue = 1239, heur = -3.0, depth = 5
iter = 574, queue = 1238, heur = -3.0, depth = 5
iter = 575, queue = 1239, heur = -3.0, depth = 5
iter = 576, queue = 1240, heur = -3.0, depth = 5
iter = 577, queue = 1241, heur = -3.0, depth = 5
iter = 578, queue = 1242, heur = -3.0, depth = 5
iter = 579, queue = 1242, heur = -3.0, depth = 5
iter = 580, queue = 1245, heur = -3.0, depth = 6
iter = 581, queue = 1245, heur = -3.0, depth = 5
iter = 582, queue = 1248, heur = -3.0, depth = 5
iter = 583, queue = 1251, heur = -3.0, depth = 5
iter = 584, queue = 1252, heur = -3.0, depth = 5
iter = 585, queue = 1253, heur = -3.0, depth = 5
iter = 586, queue = 1256, heur = -3.0, depth = 5
iter = 587, queue = 1259, heur = -3.0, depth = 5
```

```
iter = 588, queue = 1261, heur = -3.0, depth = 5
iter = 589, queue = 1264, heur = -3.0, depth = 5
iter = 590, queue = 1266, heur = -3.0, depth = 5
iter = 591, queue = 1267, heur = -3.0, depth = 5
iter = 592, queue = 1270, heur = -3.0, depth = 5
iter = 593, queue = 1271, heur = -3.0, depth = 4
iter = 594, queue = 1272, heur = -3.0, depth = 5
iter = 595, queue = 1273, heur = -3.0, depth = 5
iter = 596, queue = 1274, heur = -3.0, depth = 5
iter = 597, queue = 1274, heur = -3.0, depth = 5
iter = 598, queue = 1277, heur = -3.0, depth = 5
iter = 599, queue = 1280, heur = -3.0, depth = 5
iter = 600, queue = 1281, heur = -3.0, depth = 5
iter = 601, queue = 1284, heur = -3.0, depth = 5
iter = 602, queue = 1287, heur = -3.0, depth = 5
iter = 603, queue = 1290, heur = -3.0, depth = 5
iter = 604, queue = 1291, heur = -3.0, depth = 5
iter = 605, queue = 1294, heur = -3.0, depth = 5
iter = 606, queue = 1296, heur = -3.0, depth = 5
iter = 607, queue = 1299, heur = -3.0, depth = 5
iter = 608, queue = 1300, heur = -3.0, depth = 5
iter = 609, queue = 1301, heur = -3.0, depth = 5
iter = 610, queue = 1302, heur = -3.0, depth = 3
iter = 611, queue = 1303, heur = -3.0, depth = 5
iter = 612, queue = 1304, heur = -3.0, depth = 5
iter = 613, queue = 1306, heur = -3.0, depth = 5
iter = 614, queue = 1309, heur = -3.0, depth = 5
iter = 615, queue = 1312, heur = -3.0, depth = 5
iter = 616, queue = 1314, heur = -3.0, depth = 5
iter = 617, queue = 1315, heur = -3.0, depth = 6
iter = 618, queue = 1316, heur = -3.0, depth = 5
iter = 619, queue = 1319, heur = -3.0, depth = 9
iter = 620, queue = 1322, heur = -3.0, depth = 4
iter = 621, queue = 1325, heur = -3.0, depth = 4
iter = 622, queue = 1328, heur = -3.0, depth = 5
iter = 623, queue = 1329, heur = -3.0, depth = 5
iter = 624, queue = 1332, heur = -3.0, depth = 5
iter = 625, queue = 1333, heur = -3.0, depth = 5
iter = 626, queue = 1334, heur = -3.0, depth = 5
iter = 627, queue = 1336, heur = -3.0, depth = 5
iter = 628, queue = 1339, heur = -3.0, depth = 4
iter = 629, queue = 1341, heur = -3.0, depth = 5
iter = 630, queue = 1342, heur = -3.0, depth = 5
iter = 631, queue = 1343, heur = -3.0, depth = 5
iter = 632, queue = 1344, heur = -3.0, depth = 5
iter = 633, queue = 1347, heur = -3.0, depth = 5
iter = 634, queue = 1348, heur = -3.0, depth = 5
iter = 635, queue = 1351, heur = -3.0, depth = 6
iter = 636, queue = 1354, heur = -3.0, depth = 5
iter = 637, queue = 1355, heur = -3.0, depth = 5
iter = 638, queue = 1356, heur = -3.0, depth = 5
iter = 639, queue = 1357, heur = -3.0, depth = 5
iter = 640, queue = 1360, heur = -3.0, depth = 5
iter = 641, queue = 1361, heur = -3.0, depth = 5
iter = 642, queue = 1362, heur = -3.0, depth = 5
iter = 643, queue = 1363, heur = -3.0, depth = 5
iter = 644, queue = 1365, heur = -3.0, depth = 5
iter = 645, queue = 1367, heur = -3.0, depth = 7
iter = 646, queue = 1368, heur = -3.0, depth = 5
```

```
iter = 647, queue = 1369, heur = -3.0, depth = 5
iter = 648, queue = 1369, heur = -3.0, depth = 5
iter = 649, queue = 1372, heur = -3.0, depth = 5
iter = 650, queue = 1375, heur = -3.0, depth = 6
iter = 651, queue = 1378, heur = -3.0, depth = 5
iter = 652, queue = 1379, heur = -3.0, depth = 6
iter = 653, queue = 1382, heur = -3.0, depth = 5
iter = 654, queue = 1383, heur = -3.0, depth = 5
iter = 655, queue = 1382, heur = -3.0, depth = 5
iter = 656, queue = 1384, heur = -3.0, depth = 6
iter = 657, queue = 1385, heur = -3.0, depth = 6
iter = 658, queue = 1386, heur = -3.0, depth = 5
iter = 659, queue = 1389, heur = -3.0, depth = 6
iter = 660, queue = 1391, heur = -3.0, depth = 5
iter = 661, queue = 1392, heur = -3.0, depth = 5
iter = 662, queue = 1395, heur = -3.0, depth = 5
iter = 663, queue = 1396, heur = -3.0, depth = 5
iter = 664, queue = 1399, heur = -3.0, depth = 5
iter = 665, queue = 1402, heur = -3.0, depth = 5
iter = 666, queue = 1403, heur = -3.0, depth = 5
iter = 667, queue = 1405, heur = -3.0, depth = 5
iter = 668, queue = 1408, heur = -3.0, depth = 5
iter = 669, queue = 1411, heur = -3.0, depth = 5
iter = 670, queue = 1410, heur = -3.0, depth = 4
iter = 671, queue = 1412, heur = -3.0, depth = 5
iter = 672, queue = 1413, heur = -3.0, depth = 5
iter = 673, queue = 1414, heur = -3.0, depth = 5
iter = 674, queue = 1415, heur = -3.0, depth = 5
iter = 675, queue = 1415, heur = -3.0, depth = 5
iter = 676, queue = 1418, heur = -3.0, depth = 7
iter = 677, queue = 1421, heur = -3.0, depth = 4
iter = 678, queue = 1424, heur = -3.0, depth = 5
iter = 679, queue = 1424, heur = -3.0, depth = 5
iter = 680, queue = 1425, heur = -3.0, depth = 5
iter = 681, queue = 1428, heur = -3.0, depth = 5
iter = 682, queue = 1429, heur = -3.0, depth = 5
iter = 683, queue = 1430, heur = -3.0, depth = 5
iter = 684, queue = 1431, heur = -3.0, depth = 6
iter = 685, queue = 1433, heur = -3.0, depth = 5
iter = 686, queue = 1436, heur = -3.0, depth = 5
iter = 687, queue = 1439, heur = -3.0, depth = 4
iter = 688, queue = 1442, heur = -3.0, depth = 5
iter = 689, queue = 1445, heur = -3.0, depth = 4
iter = 690, queue = 1448, heur = -3.0, depth = 5
iter = 691, queue = 1449, heur = -3.0, depth = 6
iter = 692, queue = 1452, heur = -3.0, depth = 6
iter = 693, queue = 1452, heur = -3.0, depth = 5
iter = 694, queue = 1453, heur = -3.0, depth = 5
iter = 695, queue = 1455, heur = -3.0, depth = 5
iter = 696, queue = 1458, heur = -3.0, depth = 5
iter = 697, queue = 1459, heur = -3.0, depth = 4
iter = 698, queue = 1462, heur = -3.0, depth = 6
iter = 699, queue = 1463, heur = -3.0, depth = 5
iter = 700, queue = 1464, heur = -3.0, depth = 5
iter = 701, queue = 1466, heur = -3.0, depth = 5
iter = 702, queue = 1469, heur = -3.0, depth = 5
iter = 703, queue = 1472, heur = -3.0, depth = 5
iter = 704, queue = 1475, heur = -3.0, depth = 5
iter = 705, queue = 1477, heur = -3.0, depth = 5
```

```
iter = 706, queue = 1478, heur = -3.0, depth = 7
iter = 707, queue = 1480, heur = -3.0, depth = 5
iter = 708, queue = 1482, heur = -3.0, depth = 5
iter = 709, queue = 1485, heur = -3.0, depth = 5
iter = 710, queue = 1486, heur = -3.0, depth = 5
iter = 711, queue = 1487, heur = -3.0, depth = 7
iter = 712, queue = 1490, heur = -3.0, depth = 4
iter = 713, queue = 1492, heur = -3.0, depth = 4
iter = 714, queue = 1494, heur = -3.0, depth = 5
iter = 715, queue = 1497, heur = -3.0, depth = 5
iter = 716, queue = 1500, heur = -3.0, depth = 5
iter = 717, queue = 1501, heur = -3.0, depth = 5
iter = 718, queue = 1504, heur = -3.0, depth = 5
iter = 719, queue = 1507, heur = -3.0, depth = 5
iter = 720, queue = 1510, heur = -3.0, depth = 5
iter = 721, queue = 1513, heur = -3.0, depth = 4
iter = 722, queue = 1516, heur = -3.0, depth = 5
iter = 723, queue = 1519, heur = -3.0, depth = 5
iter = 724, queue = 1520, heur = -3.0, depth = 4
iter = 725, queue = 1520, heur = -3.0, depth = 4
iter = 726, queue = 1522, heur = -3.0, depth = 6
iter = 727, queue = 1525, heur = -3.0, depth = 5
iter = 728, queue = 1526, heur = -3.0, depth = 6
iter = 729, queue = 1527, heur = -3.0, depth = 5
iter = 730, queue = 1530, heur = -3.0, depth = 7
iter = 731, queue = 1531, heur = -3.0, depth = 5
iter = 732, queue = 1532, heur = -3.0, depth = 4
iter = 733, queue = 1535, heur = -3.0, depth = 5
iter = 734, queue = 1535, heur = -3.0, depth = 5
iter = 735, queue = 1536, heur = -3.0, depth = 5
iter = 736, queue = 1538, heur = -3.0, depth = 5
iter = 737, queue = 1541, heur = -3.0, depth = 5
iter = 738, queue = 1542, heur = -3.0, depth = 5
iter = 739, queue = 1544, heur = -3.0, depth = 5
iter = 740, queue = 1547, heur = -3.0, depth = 5
iter = 741, queue = 1549, heur = -3.0, depth = 5
iter = 742, queue = 1550, heur = -3.0, depth = 5
iter = 743, queue = 1553, heur = -3.0, depth = 5
iter = 744, queue = 1553, heur = -3.0, depth = 5
iter = 745, queue = 1552, heur = -3.0, depth = 10
iter = 746, queue = 1555, heur = -3.0, depth = 5
iter = 747, queue = 1557, heur = -3.0, depth = 9
iter = 748, queue = 1560, heur = -3.0, depth = 10
iter = 749, queue = 1561, heur = -3.0, depth = 10
iter = 750, queue = 1562, heur = -3.0, depth = 5
iter = 751, queue = 1563, heur = -3.0, depth = 9
iter = 752, queue = 1566, heur = -3.0, depth = 7
iter = 753, queue = 1568, heur = -3.0, depth = 6
iter = 754, queue = 1571, heur = -3.0, depth = 5
iter = 755, queue = 1572, heur = -3.0, depth = 5
iter = 756, queue = 1573, heur = -3.0, depth = 5
iter = 757, queue = 1574, heur = -3.0, depth = 5
iter = 758, queue = 1577, heur = -3.0, depth = 5
iter = 759, queue = 1579, heur = -3.0, depth = 5
iter = 760, queue = 1582, heur = -3.0, depth = 5
iter = 761, queue = 1585, heur = -3.0, depth = 5
iter = 762, queue = 1588, heur = -3.0, depth = 5
iter = 763, queue = 1591, heur = -3.0, depth = 5
iter = 764, queue = 1592, heur = -3.0, depth = 8
```

```
iter = 765, queue = 1595, heur = -3.0, depth = 5
iter = 766, queue = 1598, heur = -3.0, depth = 5
iter = 767, queue = 1601, heur = -3.0, depth = 4
iter = 768, queue = 1604, heur = -3.0, depth = 5
iter = 769, queue = 1605, heur = -3.0, depth = 6
iter = 770, queue = 1606, heur = -3.0, depth = 6
iter = 771, queue = 1609, heur = -3.0, depth = 5
iter = 772, queue = 1612, heur = -3.0, depth = 5
iter = 773, queue = 1615, heur = -3.0, depth = 5
iter = 774, queue = 1616, heur = -3.0, depth = 5
iter = 775, queue = 1619, heur = -3.0, depth = 5
iter = 776, queue = 1621, heur = -3.0, depth = 5
iter = 777, queue = 1622, heur = -3.0, depth = 5
iter = 778, queue = 1623, heur = -3.0, depth = 5
iter = 779, queue = 1626, heur = -3.0, depth = 5
iter = 780, queue = 1627, heur = -3.0, depth = 4
iter = 781, queue = 1630, heur = -3.0, depth = 5
iter = 782, queue = 1633, heur = -3.0, depth = 5
iter = 783, queue = 1636, heur = -3.0, depth = 5
iter = 784, queue = 1637, heur = -3.0, depth = 5
iter = 785, queue = 1640, heur = -3.0, depth = 5
iter = 786, queue = 1641, heur = -3.0, depth = 5
iter = 787, queue = 1642, heur = -3.0, depth = 5
iter = 788, queue = 1644, heur = -3.0, depth = 5
iter = 789, queue = 1647, heur = -3.0, depth = 4
iter = 790, queue = 1649, heur = -3.0, depth = 5
iter = 791, queue = 1651, heur = -3.0, depth = 5
iter = 792, queue = 1653, heur = -3.0, depth = 5
iter = 793, queue = 1654, heur = -3.0, depth = 5
iter = 794, queue = 1654, heur = -3.0, depth = 5
iter = 795, queue = 1655, heur = -3.0, depth = 5
iter = 796, queue = 1658, heur = -3.0, depth = 5
iter = 797, queue = 1659, heur = -3.0, depth = 5
iter = 798, queue = 1662, heur = -3.0, depth = 5
iter = 799, queue = 1663, heur = -3.0, depth = 3
iter = 800, queue = 1664, heur = -3.0, depth = 5
iter = 801, queue = 1665, heur = -3.0, depth = 5
iter = 802, queue = 1667, heur = -3.0, depth = 5
iter = 803, queue = 1668, heur = -3.0, depth = 5
iter = 804, queue = 1671, heur = -3.0, depth = 5
iter = 805, queue = 1674, heur = -3.0, depth = 5
iter = 806, queue = 1675, heur = -3.0, depth = 5
iter = 807, queue = 1676, heur = -3.0, depth = 7
iter = 808, queue = 1678, heur = -3.0, depth = 3
iter = 809, queue = 1679, heur = -3.0, depth = 5
iter = 810, queue = 1680, heur = -3.0, depth = 5
iter = 811, queue = 1681, heur = -3.0, depth = 5
iter = 812, queue = 1682, heur = -3.0, depth = 5
iter = 813, queue = 1682, heur = -3.0, depth = 5
iter = 814, queue = 1685, heur = -3.0, depth = 5
iter = 815, queue = 1686, heur = -3.0, depth = 5
iter = 816, queue = 1689, heur = -3.0, depth = 4
iter = 817, queue = 1691, heur = -3.0, depth = 5
iter = 818, queue = 1694, heur = -3.0, depth = 8
iter = 819, queue = 1697, heur = -3.0, depth = 3
iter = 820, queue = 1698, heur = -3.0, depth = 5
iter = 821, queue = 1699, heur = -3.0, depth = 5
iter = 822, queue = 1702, heur = -3.0, depth = 5
iter = 823, queue = 1703, heur = -3.0, depth = 5
```

```
iter = 824, queue = 1704, heur = -3.0, depth = 5
iter = 825, queue = 1705, heur = -3.0, depth = 5
iter = 826, queue = 1708, heur = -3.0, depth = 5
iter = 827, queue = 1711, heur = -3.0, depth = 4
iter = 828, queue = 1712, heur = -3.0, depth = 5
iter = 829, queue = 1713, heur = -3.0, depth = 5
iter = 830, queue = 1716, heur = -3.0, depth = 5
iter = 831, queue = 1719, heur = -3.0, depth = 5
iter = 832, queue = 1722, heur = -3.0, depth = 5
iter = 833, queue = 1723, heur = -3.0, depth = 5
iter = 834, queue = 1724, heur = -3.0, depth = 5
iter = 835, queue = 1725, heur = -3.0, depth = 6
iter = 836, queue = 1725, heur = -3.0, depth = 5
iter = 837, queue = 1726, heur = -3.0, depth = 8
iter = 838, queue = 1725, heur = -3.0, depth = 5
iter = 839, queue = 1726, heur = -3.0, depth = 5
iter = 840, queue = 1727, heur = -3.0, depth = 5
iter = 841, queue = 1729, heur = -3.0, depth = 5
iter = 842, queue = 1730, heur = -3.0, depth = 5
iter = 843, queue = 1731, heur = -3.0, depth = 5
iter = 844, queue = 1733, heur = -3.0, depth = 5
iter = 845, queue = 1734, heur = -3.0, depth = 5
iter = 846, queue = 1735, heur = -3.0, depth = 5
iter = 847, queue = 1738, heur = -3.0, depth = 5
iter = 848, queue = 1739, heur = -3.0, depth = 5
iter = 849, queue = 1739, heur = -3.0, depth = 5
iter = 850, queue = 1740, heur = -3.0, depth = 5
iter = 851, queue = 1743, heur = -3.0, depth = 5
iter = 852, queue = 1744, heur = -3.0, depth = 8
iter = 853, queue = 1745, heur = -3.0, depth = 8
iter = 854, queue = 1748, heur = -3.0, depth = 5
iter = 855, queue = 1749, heur = -3.0, depth = 5
iter = 856, queue = 1751, heur = -3.0, depth = 8
iter = 857, queue = 1754, heur = -3.0, depth = 6
iter = 858, queue = 1756, heur = -3.0, depth = 5
iter = 859, queue = 1759, heur = -3.0, depth = 5
iter = 860, queue = 1760, heur = -3.0, depth = 4
iter = 861, queue = 1763, heur = -3.0, depth = 5
iter = 862, queue = 1764, heur = -3.0, depth = 4
iter = 863, queue = 1767, heur = -3.0, depth = 5
iter = 864, queue = 1766, heur = -3.0, depth = 5
iter = 865, queue = 1769, heur = -3.0, depth = 4
iter = 866, queue = 1772, heur = -3.0, depth = 6
iter = 867, queue = 1774, heur = -3.0, depth = 4
iter = 868, queue = 1776, heur = -3.0, depth = 3
iter = 869, queue = 1777, heur = -3.0, depth = 5
iter = 870, queue = 1779, heur = -3.0, depth = 5
iter = 871, queue = 1782, heur = -3.0, depth = 8
iter = 872, queue = 1783, heur = -3.0, depth = 5
iter = 873, queue = 1784, heur = -3.0, depth = 5
iter = 874, queue = 1787, heur = -3.0, depth = 5
iter = 875, queue = 1790, heur = -3.0, depth = 5
iter = 876, queue = 1793, heur = -3.0, depth = 4
iter = 877, queue = 1794, heur = -3.0, depth = 5
iter = 878, queue = 1795, heur = -3.0, depth = 7
iter = 879, queue = 1796, heur = -3.0, depth = 5
iter = 880, queue = 1796, heur = -3.0, depth = 5
iter = 881, queue = 1799, heur = -3.0, depth = 5
iter = 882, queue = 1801, heur = -3.0, depth = 5
```

```
iter = 883, queue = 1802, heur = -3.0, depth = 5
iter = 884, queue = 1803, heur = -3.0, depth = 5
iter = 885, queue = 1805, heur = -3.0, depth = 5
iter = 886, queue = 1807, heur = -3.0, depth = 5
iter = 887, queue = 1808, heur = -3.0, depth = 5
iter = 888, queue = 1809, heur = -3.0, depth = 5
iter = 889, queue = 1811, heur = -3.0, depth = 5
iter = 890, queue = 1814, heur = -3.0, depth = 5
iter = 891, queue = 1816, heur = -3.0, depth = 5
iter = 892, queue = 1817, heur = -3.0, depth = 5
iter = 893, queue = 1818, heur = -3.0, depth = 5
iter = 894, queue = 1819, heur = -3.0, depth = 5
iter = 895, queue = 1819, heur = -3.0, depth = 5
iter = 896, queue = 1820, heur = -3.0, depth = 5
iter = 897, queue = 1823, heur = -3.0, depth = 5
iter = 898, queue = 1825, heur = -3.0, depth = 5
iter = 899, queue = 1828, heur = -3.0, depth = 6
iter = 900, queue = 1828, heur = -3.0, depth = 5
iter = 901, queue = 1831, heur = -3.0, depth = 5
iter = 902, queue = 1834, heur = -3.0, depth = 5
iter = 903, queue = 1835, heur = -3.0, depth = 5
iter = 904, queue = 1836, heur = -3.0, depth = 5
iter = 905, queue = 1839, heur = -3.0, depth = 5
iter = 906, queue = 1842, heur = -3.0, depth = 6
iter = 907, queue = 1841, heur = -3.0, depth = 5
iter = 908, queue = 1844, heur = -3.0, depth = 5
iter = 909, queue = 1847, heur = -3.0, depth = 5
iter = 910, queue = 1850, heur = -3.0, depth = 5
iter = 911, queue = 1853, heur = -3.0, depth = 5
iter = 912, queue = 1854, heur = -3.0, depth = 5
iter = 913, queue = 1855, heur = -3.0, depth = 5
iter = 914, queue = 1857, heur = -3.0, depth = 5
iter = 915, queue = 1858, heur = -3.0, depth = 5
iter = 916, queue = 1858, heur = -3.0, depth = 5
iter = 917, queue = 1860, heur = -3.0, depth = 5
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']
['I', 'G', 'F', 'J']
['D', 'C', 'E']
                  STATE 2
['A', 'B']
['I', 'G', 'F', 'J', 'H']
['D', 'C', 'E']
                  _STATE 3_____
['A', 'B']
['I', 'G', 'F', 'J', 'H', 'E']
['D', 'C']
                  STATE 4
['A', 'B', 'C']
['I', 'G', 'F', 'J', 'H', 'E']
['D']
                  STATE 5_____
['A', 'B', 'C', 'D']
['I', 'G', 'F', 'J', 'H', 'E']
STATE 6
['A', 'B', 'C', 'D', 'E']
['I', 'G', 'F', 'J', 'H']
\prod
                  STATE 7____
['A', 'B', 'C', 'D', 'E', 'H']
['I', 'G', 'F', 'J']
STATE 8
['A', 'B', 'C', 'D', 'E', 'H']
['I', 'G', 'F']
['J']
                  STATE 9_____
['A', 'B', 'C', 'D', 'E']
['I', 'G', 'F']
['J', 'H']
                  STATE 10
['A', 'B', 'C', 'D', 'E', 'F']
['I', 'G']
['J', 'H']
                  STATE 11
['A', 'B', 'C', 'D', 'E', 'F', 'G']
['I']
['J', 'H']
                  STATE 12
['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H']
['I']
['J']
                  STATE 13
['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'I']
['J']
```

```
['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'I', 'J']
П
Iterations: 948
Path Length: 14
```

Maximum queue size: 1913

Number of states visited: 2860 Time taken: 0.176671028137 seconds

ase 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
iter = 159, queue = 309, heur = -5.0, depth = 5
iter = 160, queue = 309, heur = -5.0, depth = 5
iter = 161, queue = 310, heur = -5.0, depth = 5
iter = 162, queue = 313, heur = -5.0, depth = 5
iter = 163, queue = 313, heur = -5.0, depth = 5
iter = 164, queue = 316, heur = -5.0, depth = 5
iter = 165, queue = 319, heur = -5.0, depth = 5
iter = 166, queue = 320, heur = -5.0, depth = 5
iter = 167, queue = 323, heur = -5.0, depth = 5
iter = 168, queue = 326, heur = -5.0, depth = 5
iter = 169, queue = 327, heur = -5.0, depth = 5
iter = 170, queue = 330, heur = -5.0, depth = 5
iter = 171, queue = 333, heur = -5.0, depth = 5
iter = 172, queue = 336, heur = -5.0, depth = 5
iter = 173, queue = 339, heur = -5.0, depth = 5
iter = 174, queue = 342, heur = -5.0, depth = 5
iter = 175, queue = 345, heur = -5.0, depth = 5
```

```
iter = 176, queue = 348, heur = -5.0, depth = 5
iter = 177, queue = 349, heur = -5.0, depth = 5
iter = 178, queue = 350, heur = -5.0, depth = 5
iter = 179, queue = 351, heur = -5.0, depth = 5
iter = 180, queue = 354, heur = -5.0, depth = 5
iter = 181, queue = 354, heur = -5.0, depth = 5
iter = 182, queue = 357, heur = -5.0, depth = 5
iter = 183, queue = 360, heur = -5.0, depth = 5
iter = 184, queue = 359, heur = -5.0, depth = 5
iter = 185, queue = 360, heur = -5.0, depth = 5
iter = 186, queue = 363, heur = -5.0, depth = 5
iter = 187, queue = 366, heur = -5.0, depth = 6
iter = 188, queue = 369, heur = -5.0, depth = 5
iter = 189, queue = 370, heur = -5.0, depth = 5
iter = 190, queue = 373, heur = -5.0, depth = 5
iter = 191, queue = 376, heur = -5.0, depth = 6
iter = 192, queue = 377, heur = -5.0, depth = 6
iter = 193, queue = 378, heur = -5.0, depth = 6
iter = 194, queue = 379, heur = -5.0, depth = 5
iter = 195, queue = 382, heur = -5.0, depth = 5
iter = 196, queue = 382, heur = -5.0, depth = 6
iter = 197, queue = 383, heur = -5.0, depth = 6
iter = 198, queue = 386, heur = -5.0, depth = 6
iter = 199, queue = 389, heur = -5.0, depth = 5
iter = 200, queue = 389, heur = -5.0, depth = 6
iter = 201, queue = 390, heur = -5.0, depth = 6
iter = 202, queue = 393, heur = -5.0, depth = 5
iter = 203, queue = 396, heur = -5.0, depth = 5
iter = 204, queue = 397, heur = -5.0, depth = 5
iter = 205, queue = 400, heur = -5.0, depth = 5
iter = 206, queue = 402, heur = -5.0, depth = 5
iter = 207, queue = 403, heur = -5.0, depth = 5
iter = 208, queue = 404, heur = -5.0, depth = 6
iter = 209, queue = 407, heur = -5.0, depth = 5
iter = 210, queue = 410, heur = -5.0, depth = 5
iter = 211, queue = 409, heur = -5.0, depth = 5
iter = 212, queue = 412, heur = -5.0, depth = 5
iter = 213, queue = 415, heur = -5.0, depth = 5
iter = 214, queue = 416, heur = -5.0, depth = 6
iter = 215, queue = 419, heur = -5.0, depth = 5
iter = 216, queue = 420, heur = -5.0, depth = 5
iter = 217, queue = 423, heur = -5.0, depth = 6
iter = 218, queue = 425, heur = -5.0, depth = 5
iter = 219, queue = 428, heur = -5.0, depth = 5
iter = 220, queue = 431, heur = -5.0, depth = 5
iter = 221, queue = 434, heur = -5.0, depth = 5
iter = 222, queue = 437, heur = -5.0, depth = 5
iter = 223, queue = 438, heur = -5.0, depth = 5
iter = 224, queue = 441, heur = -5.0, depth = 6
iter = 225, queue = 444, heur = -5.0, depth = 5
iter = 226, queue = 445, heur = -5.0, depth = 5
iter = 227, queue = 444, heur = -5.0, depth = 5
iter = 228, queue = 447, heur = -5.0, depth = 5
iter = 229, queue = 449, heur = -5.0, depth = 5
iter = 230, queue = 450, heur = -5.0, depth = 5
iter = 231, queue = 452, heur = -5.0, depth = 5
iter = 232, queue = 453, heur = -5.0, depth = 5
iter = 233, queue = 456, heur = -5.0, depth = 5
iter = 234, queue = 459, heur = -5.0, depth = 6
```

```
iter = 235, queue = 462, heur = -5.0, depth = 5
iter = 236, queue = 463, heur = -5.0, depth = 5
iter = 237, queue = 466, heur = -5.0, depth = 7
iter = 238, queue = 469, heur = -5.0, depth = 5
iter = 239, queue = 472, heur = -5.0, depth = 5
iter = 240, queue = 475, heur = -5.0, depth = 5
iter = 241, queue = 478, heur = -5.0, depth = 5
iter = 242, queue = 477, heur = -5.0, depth = 5
iter = 243, queue = 478, heur = -5.0, depth = 5
iter = 244, queue = 481, heur = -5.0, depth = 5
iter = 245, queue = 484, heur = -5.0, depth = 5
iter = 246, queue = 487, heur = -5.0, depth = 5
iter = 247, queue = 490, heur = -5.0, depth = 5
iter = 248, queue = 493, heur = -5.0, depth = 5
iter = 249, queue = 494, heur = -5.0, depth = 5
iter = 250, queue = 497, heur = -5.0, depth = 5
iter = 251, queue = 499, heur = -5.0, depth = 5
iter = 252, queue = 498, heur = -5.0, depth = 5
iter = 253, queue = 501, heur = -5.0, depth = 5
iter = 254, queue = 504, heur = -5.0, depth = 5
iter = 255, queue = 506, heur = -5.0, depth = 5
iter = 256, queue = 507, heur = -5.0, depth = 5
iter = 257, queue = 510, heur = -5.0, depth = 5
iter = 258, queue = 512, heur = -5.0, depth = 5
iter = 259, queue = 513, heur = -5.0, depth = 5
iter = 260, queue = 515, heur = -5.0, depth = 5
iter = 261, queue = 516, heur = -5.0, depth = 5
iter = 262, queue = 518, heur = -5.0, depth = 5
iter = 263, queue = 519, heur = -5.0, depth = 5
iter = 264, queue = 520, heur = -5.0, depth = 5
iter = 265, queue = 523, heur = -5.0, depth = 5
iter = 266, queue = 524, heur = -5.0, depth = 5
iter = 267, queue = 525, heur = -5.0, depth = 5
iter = 268, queue = 528, heur = -5.0, depth = 5
iter = 269, queue = 531, heur = -5.0, depth = 5
iter = 270, queue = 532, heur = -5.0, depth = 5
iter = 271, queue = 533, heur = -5.0, depth = 5
iter = 272, queue = 536, heur = -5.0, depth = 5
iter = 273, queue = 539, heur = -5.0, depth = 5
iter = 274, queue = 542, heur = -5.0, depth = 5
iter = 275, queue = 545, heur = -5.0, depth = 5
iter = 276, queue = 548, heur = -5.0, depth = 5
iter = 277, queue = 549, heur = -5.0, depth = 5
iter = 278, queue = 550, heur = -5.0, depth = 5
iter = 279, queue = 551, heur = -5.0, depth = 5
iter = 280, queue = 553, heur = -5.0, depth = 5
iter = 281, queue = 556, heur = -5.0, depth = 5
iter = 282, queue = 558, heur = -5.0, depth = 5
iter = 283, queue = 561, heur = -5.0, depth = 5
iter = 284, queue = 564, heur = -5.0, depth = 5
iter = 285, queue = 565, heur = -5.0, depth = 5
iter = 286, queue = 567, heur = -5.0, depth = 5
iter = 287, queue = 570, heur = -5.0, depth = 5
iter = 288, queue = 573, heur = -5.0, depth = 5
iter = 289, queue = 573, heur = -5.0, depth = 5
iter = 290, queue = 575, heur = -5.0, depth = 5
iter = 291, queue = 578, heur = -5.0, depth = 5
iter = 292, queue = 578, heur = -5.0, depth = 5
iter = 293, queue = 579, heur = -5.0, depth = 5
```

```
iter = 294, queue = 579, heur = -5.0, depth = 5
iter = 295, queue = 578, heur = -5.0, depth = 5
iter = 296, queue = 579, heur = -5.0, depth = 6
iter = 297, queue = 582, heur = -5.0, depth = 5
iter = 298, queue = 584, heur = -5.0, depth = 5
iter = 299, queue = 586, heur = -5.0, depth = 5
iter = 300, queue = 587, heur = -5.0, depth = 5
iter = 301, queue = 589, heur = -5.0, depth = 5
iter = 302, queue = 588, heur = -5.0, depth = 5
iter = 303, queue = 591, heur = -5.0, depth = 5
iter = 304, queue = 594, heur = -5.0, depth = 5
iter = 305, queue = 597, heur = -5.0, depth = 5
iter = 306, queue = 599, heur = -5.0, depth = 5
iter = 307, queue = 602, heur = -5.0, depth = 5
iter = 308, queue = 605, heur = -5.0, depth = 5
iter = 309, queue = 608, heur = -5.0, depth = 5
iter = 310, queue = 607, heur = -5.0, depth = 6
iter = 311, queue = 609, heur = -5.0, depth = 5
iter = 312, queue = 612, heur = -5.0, depth = 5
iter = 313, queue = 611, heur = -5.0, depth = 5
iter = 314, queue = 612, heur = -5.0, depth = 5
iter = 315, queue = 614, heur = -5.0, depth = 5
iter = 316, queue = 616, heur = -5.0, depth = 5
iter = 317, queue = 616, heur = -5.0, depth = 5
iter = 318, queue = 618, heur = -5.0, depth = 5
iter = 319, queue = 617, heur = -5.0, depth = 5
iter = 320, queue = 618, heur = -5.0, depth = 5
iter = 321, queue = 621, heur = -5.0, depth = 5
iter = 322, queue = 624, heur = -5.0, depth = 5
iter = 323, queue = 625, heur = -5.0, depth = 6
iter = 324, queue = 628, heur = -5.0, depth = 5
iter = 325, queue = 628, heur = -5.0, depth = 5
iter = 326, queue = 631, heur = -5.0, depth = 5
iter = 327, queue = 634, heur = -5.0, depth = 5
iter = 328, queue = 637, heur = -5.0, depth = 5
iter = 329, queue = 640, heur = -5.0, depth = 5
iter = 330, queue = 643, heur = -5.0, depth = 5
iter = 331, queue = 646, heur = -5.0, depth = 5
iter = 332, queue = 649, heur = -5.0, depth = 5
iter = 333, queue = 650, heur = -5.0, depth = 5
iter = 334, queue = 653, heur = -5.0, depth = 5
iter = 335, queue = 653, heur = -5.0, depth = 5
iter = 336, queue = 656, heur = -5.0, depth = 5
iter = 337, queue = 659, heur = -5.0, depth = 5
iter = 338, queue = 660, heur = -5.0, depth = 5
iter = 339, queue = 659, heur = -5.0, depth = 5
iter = 340, queue = 659, heur = -5.0, depth = 5
iter = 341, queue = 660, heur = -5.0, depth = 5
iter = 342, queue = 663, heur = -5.0, depth = 5
iter = 343, queue = 666, heur = -5.0, depth = 6
iter = 344, queue = 669, heur = -5.0, depth = 5
iter = 345, queue = 670, heur = -5.0, depth = 5
iter = 346, queue = 673, heur = -5.0, depth = 5
iter = 347, queue = 676, heur = -5.0, depth = 5
iter = 348, queue = 679, heur = -5.0, depth = 5
iter = 349, queue = 680, heur = -5.0, depth = 5
iter = 350, queue = 680, heur = -5.0, depth = 5
iter = 351, queue = 680, heur = -5.0, depth = 5
iter = 352, queue = 681, heur = -5.0, depth = 5
```

```
iter = 353, queue = 683, heur = -5.0, depth = 5
iter = 354, queue = 682, heur = -5.0, depth = 6
iter = 355, queue = 684, heur = -5.0, depth = 5
iter = 356, queue = 687, heur = -5.0, depth = 5
iter = 357, queue = 690, heur = -5.0, depth = 5
iter = 358, queue = 689, heur = -5.0, depth = 5
iter = 359, queue = 692, heur = -5.0, depth = 5
iter = 360, queue = 695, heur = -5.0, depth = 5
iter = 361, queue = 694, heur = -5.0, depth = 5
iter = 362, queue = 697, heur = -5.0, depth = 5
iter = 363, queue = 700, heur = -5.0, depth = 5
iter = 364, queue = 702, heur = -5.0, depth = 5
iter = 365, queue = 703, heur = -5.0, depth = 5
iter = 366, queue = 706, heur = -5.0, depth = 5
iter = 367, queue = 708, heur = -5.0, depth = 5
iter = 368, queue = 711, heur = -5.0, depth = 6
iter = 369, queue = 712, heur = -5.0, depth = 5
iter = 370, queue = 715, heur = -5.0, depth = 5
iter = 371, queue = 714, heur = -5.0, depth = 6
iter = 372, queue = 715, heur = -5.0, depth = 5
iter = 373, queue = 718, heur = -5.0, depth = 6
iter = 374, queue = 721, heur = -5.0, depth = 6
iter = 375, queue = 724, heur = -5.0, depth = 5
iter = 376, queue = 723, heur = -5.0, depth = 5
iter = 377, queue = 724, heur = -5.0, depth = 5
iter = 378, queue = 725, heur = -5.0, depth = 5
iter = 379, queue = 728, heur = -5.0, depth = 5
iter = 380, queue = 727, heur = -5.0, depth = 5
iter = 381, queue = 730, heur = -5.0, depth = 5
iter = 382, queue = 733, heur = -5.0, depth = 5
iter = 383, queue = 734, heur = -5.0, depth = 5
iter = 384, queue = 733, heur = -5.0, depth = 5
iter = 385, queue = 736, heur = -5.0, depth = 5
iter = 386, queue = 735, heur = -5.0, depth = 5
iter = 387, queue = 736, heur = -5.0, depth = 5
iter = 388, queue = 738, heur = -5.0, depth = 5
iter = 389, queue = 741, heur = -5.0, depth = 5
iter = 390, queue = 743, heur = -5.0, depth = 5
iter = 391, queue = 746, heur = -5.0, depth = 5
iter = 392, queue = 747, heur = -5.0, depth = 5
iter = 393, queue = 747, heur = -5.0, depth = 5
iter = 394, queue = 747, heur = -5.0, depth = 5
iter = 395, queue = 748, heur = -5.0, depth = 5
iter = 396, queue = 749, heur = -5.0, depth = 5
iter = 397, queue = 748, heur = -5.0, depth = 5
iter = 398, queue = 747, heur = -5.0, depth = 5
iter = 399, queue = 749, heur = -5.0, depth = 5
iter = 400, queue = 751, heur = -5.0, depth = 5
iter = 401, queue = 754, heur = -5.0, depth = 5
iter = 402, queue = 755, heur = -5.0, depth = 5
iter = 403, queue = 758, heur = -5.0, depth = 5
iter = 404, queue = 761, heur = -5.0, depth = 5
iter = 405, queue = 764, heur = -5.0, depth = 5
iter = 406, queue = 765, heur = -5.0, depth = 5
iter = 407, queue = 766, heur = -5.0, depth = 5
iter = 408, queue = 769, heur = -5.0, depth = 5
iter = 409, queue = 772, heur = -5.0, depth = 6
iter = 410, queue = 775, heur = -5.0, depth = 5
iter = 411, queue = 778, heur = -5.0, depth = 5
```

```
iter = 412, queue = 781, heur = -5.0, depth = 5
iter = 413, queue = 784, heur = -5.0, depth = 5
iter = 414, queue = 787, heur = -5.0, depth = 5
iter = 415, queue = 790, heur = -5.0, depth = 5
iter = 416, queue = 793, heur = -5.0, depth = 5
iter = 417, queue = 796, heur = -5.0, depth = 5
iter = 418, queue = 799, heur = -5.0, depth = 5
iter = 419, queue = 802, heur = -5.0, depth = 5
iter = 420, queue = 803, heur = -5.0, depth = 5
iter = 421, queue = 804, heur = -5.0, depth = 5
iter = 422, queue = 804, heur = -5.0, depth = 5
iter = 423, queue = 807, heur = -5.0, depth = 5
iter = 424, queue = 810, heur = -5.0, depth = 5
iter = 425, queue = 813, heur = -5.0, depth = 5
iter = 426, queue = 814, heur = -5.0, depth = 5
iter = 427, queue = 816, heur = -5.0, depth = 5
iter = 428, queue = 819, heur = -5.0, depth = 5
iter = 429, queue = 822, heur = -5.0, depth = 5
iter = 430, queue = 825, heur = -5.0, depth = 5
iter = 431, queue = 828, heur = -5.0, depth = 5
iter = 432, queue = 831, heur = -5.0, depth = 5
iter = 433, queue = 832, heur = -5.0, depth = 5
iter = 434, queue = 833, heur = -5.0, depth = 5
iter = 435, queue = 836, heur = -5.0, depth = 5
iter = 436, queue = 837, heur = -5.0, depth = 5
iter = 437, queue = 839, heur = -5.0, depth = 5
iter = 438, queue = 842, heur = -5.0, depth = 5
iter = 439, queue = 843, heur = -5.0, depth = 5
iter = 440, queue = 845, heur = -5.0, depth = 5
iter = 441, queue = 847, heur = -5.0, depth = 5
iter = 442, queue = 850, heur = -5.0, depth = 5
iter = 443, queue = 853, heur = -5.0, depth = 5
iter = 444, queue = 856, heur = -5.0, depth = 5
iter = 445, queue = 859, heur = -5.0, depth = 5
iter = 446, queue = 860, heur = -5.0, depth = 5
iter = 447, queue = 863, heur = -5.0, depth = 5
iter = 448, queue = 866, heur = -5.0, depth = 5
iter = 449, queue = 869, heur = -5.0, depth = 5
iter = 450, queue = 872, heur = -5.0, depth = 5
iter = 451, queue = 875, heur = -5.0, depth = 5
iter = 452, queue = 876, heur = -5.0, depth = 6
iter = 453, queue = 878, heur = -5.0, depth = 5
iter = 454, queue = 879, heur = -5.0, depth = 5
iter = 455, queue = 882, heur = -5.0, depth = 6
iter = 456, queue = 885, heur = -5.0, depth = 6
iter = 457, queue = 888, heur = -5.0, depth = 5
iter = 458, queue = 889, heur = -5.0, depth = 5
iter = 459, queue = 892, heur = -5.0, depth = 5
iter = 460, queue = 895, heur = -6.0, depth = 6
iter = 461, queue = 897, heur = -6.0, depth = 6
iter = 462, queue = 900, heur = -6.0, depth = 6
iter = 463, queue = 903, heur = -6.0, depth = 7
iter = 464, queue = 905, heur = -6.0, depth = 6
iter = 465, queue = 905, heur = -6.0, depth = 6
iter = 466, queue = 908, heur = -6.0, depth = 6
iter = 467, queue = 911, heur = -6.0, depth = 6
iter = 468, queue = 912, heur = -6.0, depth = 6
iter = 469, queue = 913, heur = -6.0, depth = 6
iter = 470, queue = 914, heur = -6.0, depth = 6
```

```
iter = 471, queue = 915, heur = -6.0, depth = 7
iter = 472, queue = 918, heur = -6.0, depth = 6
iter = 473, queue = 919, heur = -6.0, depth = 6
iter = 474, queue = 920, heur = -6.0, depth = 6
iter = 475, queue = 921, heur = -6.0, depth = 6
iter = 476, queue = 924, heur = -6.0, depth = 6
iter = 477, queue = 927, heur = -6.0, depth = 6
iter = 478, queue = 930, heur = -6.0, depth = 6
iter = 479, queue = 931, heur = -6.0, depth = 6
iter = 480, queue = 934, heur = -6.0, depth = 6
iter = 481, queue = 936, heur = -6.0, depth = 6
iter = 482, queue = 937, heur = -6.0, depth = 6
iter = 483, queue = 938, heur = -6.0, depth = 6
iter = 484, queue = 938, heur = -6.0, depth = 6
iter = 485, queue = 941, heur = -6.0, depth = 6
iter = 486, queue = 944, heur = -6.0, depth = 6
iter = 487, queue = 947, heur = -6.0, depth = 6
iter = 488, queue = 948, heur = -6.0, depth = 6
iter = 489, queue = 949, heur = -6.0, depth = 6
iter = 490, queue = 952, heur = -6.0, depth = 6
iter = 491, queue = 955, heur = -6.0, depth = 6
iter = 492, queue = 958, heur = -6.0, depth = 6
iter = 493, queue = 961, heur = -6.0, depth = 6
iter = 494, queue = 962, heur = -6.0, depth = 6
iter = 495, queue = 963, heur = -6.0, depth = 6
iter = 496, queue = 966, heur = -6.0, depth = 6
iter = 497, queue = 967, heur = -6.0, depth = 6
iter = 498, queue = 968, heur = -6.0, depth = 6
iter = 499, queue = 968, heur = -6.0, depth = 6
iter = 500, queue = 971, heur = -6.0, depth = 6
iter = 501, queue = 974, heur = -6.0, depth = 6
iter = 502, queue = 975, heur = -6.0, depth = 6
iter = 503, queue = 978, heur = -6.0, depth = 6
iter = 504, queue = 979, heur = -6.0, depth = 6
iter = 505, queue = 980, heur = -6.0, depth = 6
iter = 506, queue = 983, heur = -6.0, depth = 6
iter = 507, queue = 985, heur = -6.0, depth = 6
iter = 508, queue = 988, heur = -6.0, depth = 6
iter = 509, queue = 991, heur = -6.0, depth = 6
iter = 510, queue = 990, heur = -6.0, depth = 6
iter = 511, queue = 993, heur = -6.0, depth = 6
iter = 512, queue = 996, heur = -6.0, depth = 6
iter = 513, queue = 999, heur = -6.0, depth = 6
iter = 514, queue = 1000, heur = -6.0, depth = 6
iter = 515, queue = 1003, heur = -6.0, depth = 6
iter = 516, queue = 1006, heur = -6.0, depth = 6
iter = 517, queue = 1007, heur = -6.0, depth = 6
iter = 518, queue = 1008, heur = -6.0, depth = 6
iter = 519, queue = 1011, heur = -6.0, depth = 6
iter = 520, queue = 1014, heur = -6.0, depth = 6
iter = 521, queue = 1017, heur = -6.0, depth = 6
iter = 522, queue = 1018, heur = -6.0, depth = 6
iter = 523, queue = 1020, heur = -6.0, depth = 6
iter = 524, queue = 1023, heur = -6.0, depth = 6
iter = 525, queue = 1026, heur = -6.0, depth = 6
iter = 526, queue = 1029, heur = -6.0, depth = 6
iter = 527, queue = 1032, heur = -6.0, depth = 6
iter = 528, queue = 1033, heur = -6.0, depth = 7
iter = 529, queue = 1035, heur = -6.0, depth = 7
```

```
iter = 530, queue = 1038, heur = -6.0, depth = 6
iter = 531, queue = 1041, heur = -6.0, depth = 6
iter = 532, queue = 1044, heur = -6.0, depth = 6
iter = 533, queue = 1047, heur = -6.0, depth = 6
iter = 534, queue = 1049, heur = -6.0, depth = 7
iter = 535, queue = 1051, heur = -6.0, depth = 6
iter = 536, queue = 1052, heur = -6.0, depth = 6
iter = 537, queue = 1055, heur = -6.0, depth = 6
iter = 538, queue = 1058, heur = -6.0, depth = 6
iter = 539, queue = 1061, heur = -6.0, depth = 6
iter = 540, queue = 1063, heur = -6.0, depth = 6
iter = 541, queue = 1066, heur = -6.0, depth = 6
iter = 542, queue = 1067, heur = -6.0, depth = 6
iter = 543, queue = 1068, heur = -6.0, depth = 6
iter = 544, queue = 1069, heur = -6.0, depth = 6
iter = 545, queue = 1070, heur = -6.0, depth = 7
iter = 546, queue = 1071, heur = -6.0, depth = 6
iter = 547, queue = 1072, heur = -6.0, depth = 6
iter = 548, queue = 1075, heur = -6.0, depth = 6
iter = 549, queue = 1075, heur = -6.0, depth = 6
iter = 550, queue = 1078, heur = -6.0, depth = 8
iter = 551, queue = 1081, heur = -6.0, depth = 7
iter = 552, queue = 1082, heur = -6.0, depth = 7
iter = 553, queue = 1085, heur = -6.0, depth = 8
iter = 554, queue = 1088, heur = -6.0, depth = 8
iter = 555, queue = 1091, heur = -6.0, depth = 7
iter = 556, queue = 1091, heur = -6.0, depth = 6
iter = 557, queue = 1094, heur = -6.0, depth = 6
iter = 558, queue = 1097, heur = -6.0, depth = 6
iter = 559, queue = 1100, heur = -6.0, depth = 6
iter = 560, queue = 1103, heur = -6.0, depth = 6
iter = 561, queue = 1105, heur = -6.0, depth = 7
iter = 562, queue = 1108, heur = -6.0, depth = 6
iter = 563, queue = 1111, heur = -6.0, depth = 6
iter = 564, queue = 1111, heur = -6.0, depth = 6
iter = 565, queue = 1113, heur = -6.0, depth = 6
iter = 566, queue = 1113, heur = -6.0, depth = 7
iter = 567, queue = 1116, heur = -6.0, depth = 6
iter = 568, queue = 1117, heur = -6.0, depth = 6
iter = 569, queue = 1118, heur = -6.0, depth = 7
iter = 570, queue = 1121, heur = -6.0, depth = 6
iter = 571, queue = 1124, heur = -6.0, depth = 6
iter = 572, queue = 1127, heur = -6.0, depth = 6
iter = 573, queue = 1130, heur = -6.0, depth = 6
iter = 574, queue = 1132, heur = -6.0, depth = 7
iter = 575, queue = 1134, heur = -6.0, depth = 6
iter = 576, queue = 1135, heur = -6.0, depth = 6
iter = 577, queue = 1136, heur = -6.0, depth = 6
iter = 578, queue = 1137, heur = -6.0, depth = 6
iter = 579, queue = 1140, heur = -6.0, depth = 6
iter = 580, queue = 1142, heur = -6.0, depth = 6
iter = 581, queue = 1145, heur = -6.0, depth = 7
iter = 582, queue = 1148, heur = -6.0, depth = 6
iter = 583, queue = 1151, heur = -6.0, depth = 6
iter = 584, queue = 1154, heur = -6.0, depth = 6
iter = 585, queue = 1155, heur = -6.0, depth = 6
iter = 586, queue = 1158, heur = -6.0, depth = 6
iter = 587, queue = 1159, heur = -6.0, depth = 6
iter = 588, queue = 1162, heur = -6.0, depth = 6
```

```
iter = 589, queue = 1165, heur = -6.0, depth = 6
iter = 590, queue = 1168, heur = -6.0, depth = 6
iter = 591, queue = 1171, heur = -6.0, depth = 6
iter = 592, queue = 1171, heur = -6.0, depth = 6
iter = 593, queue = 1173, heur = -6.0, depth = 6
iter = 594, queue = 1175, heur = -6.0, depth = 7
iter = 595, queue = 1176, heur = -6.0, depth = 6
iter = 596, queue = 1179, heur = -6.0, depth = 6
iter = 597, queue = 1182, heur = -6.0, depth = 6
iter = 598, queue = 1185, heur = -6.0, depth = 6
iter = 599, queue = 1188, heur = -6.0, depth = 6
iter = 600, queue = 1190, heur = -6.0, depth = 6
iter = 601, queue = 1190, heur = -6.0, depth = 6
iter = 602, queue = 1193, heur = -6.0, depth = 6
iter = 603, queue = 1196, heur = -6.0, depth = 6
iter = 604, queue = 1198, heur = -6.0, depth = 6
iter = 605, queue = 1201, heur = -6.0, depth = 6
iter = 606, queue = 1204, heur = -6.0, depth = 6
iter = 607, queue = 1207, heur = -6.0, depth = 6
iter = 608, queue = 1209, heur = -6.0, depth = 6
iter = 609, queue = 1212, heur = -6.0, depth = 7
iter = 610, queue = 1215, heur = -6.0, depth = 7
iter = 611, queue = 1217, heur = -6.0, depth = 7
iter = 612, queue = 1218, heur = -6.0, depth = 7
iter = 613, queue = 1219, heur = -6.0, depth = 7
iter = 614, queue = 1220, heur = -6.0, depth = 7
iter = 615, queue = 1221, heur = -6.0, depth = 6
iter = 616, queue = 1222, heur = -6.0, depth = 7
iter = 617, queue = 1223, heur = -6.0, depth = 6
iter = 618, queue = 1226, heur = -6.0, depth = 6
iter = 619, queue = 1229, heur = -6.0, depth = 6
iter = 620, queue = 1232, heur = -6.0, depth = 6
iter = 621, queue = 1233, heur = -6.0, depth = 6
iter = 622, queue = 1235, heur = -6.0, depth = 7
iter = 623, queue = 1238, heur = -6.0, depth = 6
iter = 624, queue = 1241, heur = -6.0, depth = 6
iter = 625, queue = 1244, heur = -6.0, depth = 6
iter = 626, queue = 1247, heur = -6.0, depth = 6
iter = 627, queue = 1250, heur = -6.0, depth = 7
iter = 628, queue = 1253, heur = -6.0, depth = 7
iter = 629, queue = 1256, heur = -6.0, depth = 6
iter = 630, queue = 1257, heur = -6.0, depth = 6
iter = 631, queue = 1258, heur = -6.0, depth = 6
iter = 632, queue = 1258, heur = -6.0, depth = 6
iter = 633, queue = 1261, heur = -6.0, depth = 6
iter = 634, queue = 1262, heur = -6.0, depth = 6
iter = 635, queue = 1265, heur = -6.0, depth = 6
iter = 636, queue = 1266, heur = -6.0, depth = 6
iter = 637, queue = 1267, heur = -6.0, depth = 6
iter = 638, queue = 1268, heur = -6.0, depth = 6
iter = 639, queue = 1271, heur = -6.0, depth = 6
iter = 640, queue = 1274, heur = -6.0, depth = 6
iter = 641, queue = 1275, heur = -6.0, depth = 6
iter = 642, queue = 1278, heur = -6.0, depth = 6
iter = 643, queue = 1278, heur = -6.0, depth = 6
iter = 644, queue = 1281, heur = -6.0, depth = 6
iter = 645, queue = 1282, heur = -6.0, depth = 6
iter = 646, queue = 1285, heur = -6.0, depth = 6
iter = 647, queue = 1286, heur = -6.0, depth = 6
```

```
iter = 648, queue = 1287, heur = -6.0, depth = 6
iter = 649, queue = 1290, heur = -6.0, depth = 6
iter = 650, queue = 1291, heur = -6.0, depth = 6
iter = 651, queue = 1294, heur = -6.0, depth = 6
iter = 652, queue = 1295, heur = -6.0, depth = 6
iter = 653, queue = 1298, heur = -6.0, depth = 6
iter = 654, queue = 1300, heur = -6.0, depth = 6
iter = 655, queue = 1303, heur = -6.0, depth = 6
iter = 656, queue = 1304, heur = -6.0, depth = 6
iter = 657, queue = 1307, heur = -6.0, depth = 6
iter = 658, queue = 1310, heur = -6.0, depth = 6
iter = 659, queue = 1313, heur = -6.0, depth = 6
iter = 660, queue = 1316, heur = -6.0, depth = 6
iter = 661, queue = 1318, heur = -6.0, depth = 6
iter = 662, queue = 1318, heur = -6.0, depth = 6
iter = 663, queue = 1321, heur = -6.0, depth = 6
iter = 664, queue = 1320, heur = -6.0, depth = 6
iter = 665, queue = 1323, heur = -6.0, depth = 6
iter = 666, queue = 1326, heur = -6.0, depth = 6
iter = 667, queue = 1327, heur = -6.0, depth = 6
iter = 668, queue = 1328, heur = -6.0, depth = 6
iter = 669, queue = 1330, heur = -6.0, depth = 8
iter = 670, queue = 1332, heur = -6.0, depth = 6
iter = 671, queue = 1333, heur = -6.0, depth = 6
iter = 672, queue = 1334, heur = -6.0, depth = 6
iter = 673, queue = 1337, heur = -6.0, depth = 6
iter = 674, queue = 1340, heur = -6.0, depth = 6
iter = 675, queue = 1342, heur = -6.0, depth = 6
iter = 676, queue = 1343, heur = -6.0, depth = 6
iter = 677, queue = 1343, heur = -6.0, depth = 6
iter = 678, queue = 1346, heur = -6.0, depth = 6
iter = 679, queue = 1349, heur = -6.0, depth = 6
iter = 680, queue = 1352, heur = -6.0, depth = 7
iter = 681, queue = 1353, heur = -6.0, depth = 6
iter = 682, queue = 1356, heur = -6.0, depth = 6
iter = 683, queue = 1359, heur = -6.0, depth = 6
iter = 684, queue = 1360, heur = -6.0, depth = 6
iter = 685, queue = 1363, heur = -6.0, depth = 6
iter = 686, queue = 1366, heur = -6.0, depth = 7
iter = 687, queue = 1369, heur = -6.0, depth = 6
iter = 688, queue = 1372, heur = -6.0, depth = 6
iter = 689, queue = 1375, heur = -6.0, depth = 6
iter = 690, queue = 1378, heur = -6.0, depth = 6
iter = 691, queue = 1381, heur = -6.0, depth = 6
iter = 692, queue = 1384, heur = -6.0, depth = 6
iter = 693, queue = 1387, heur = -6.0, depth = 6
iter = 694, queue = 1389, heur = -6.0, depth = 6
iter = 695, queue = 1392, heur = -6.0, depth = 6
iter = 696, queue = 1393, heur = -6.0, depth = 6
iter = 697, queue = 1393, heur = -6.0, depth = 6
iter = 698, queue = 1396, heur = -6.0, depth = 6
iter = 699, queue = 1399, heur = -6.0, depth = 6
iter = 700, queue = 1400, heur = -6.0, depth = 6
iter = 701, queue = 1401, heur = -6.0, depth = 6
iter = 702, queue = 1402, heur = -6.0, depth = 6
iter = 703, queue = 1405, heur = -6.0, depth = 6
iter = 704, queue = 1408, heur = -6.0, depth = 7
iter = 705, queue = 1411, heur = -6.0, depth = 6
iter = 706, queue = 1413, heur = -6.0, depth = 6
```

```
iter = 707, queue = 1414, heur = -6.0, depth = 6
iter = 708, queue = 1414, heur = -6.0, depth = 7
iter = 709, queue = 1416, heur = -6.0, depth = 6
iter = 710, queue = 1417, heur = -6.0, depth = 6
iter = 711, queue = 1420, heur = -6.0, depth = 7
iter = 712, queue = 1423, heur = -6.0, depth = 6
iter = 713, queue = 1426, heur = -6.0, depth = 6
iter = 714, queue = 1425, heur = -6.0, depth = 6
iter = 715, queue = 1426, heur = -6.0, depth = 6
iter = 716, queue = 1428, heur = -6.0, depth = 6
iter = 717, queue = 1429, heur = -6.0, depth = 6
iter = 718, queue = 1428, heur = -6.0, depth = 6
iter = 719, queue = 1428, heur = -6.0, depth = 6
iter = 720, queue = 1429, heur = -6.0, depth = 6
iter = 721, queue = 1430, heur = -6.0, depth = 6
iter = 722, queue = 1432, heur = -6.0, depth = 6
iter = 723, queue = 1435, heur = -6.0, depth = 6
iter = 724, queue = 1435, heur = -6.0, depth = 6
iter = 725, queue = 1438, heur = -6.0, depth = 6
iter = 726, queue = 1439, heur = -6.0, depth = 6
iter = 727, queue = 1440, heur = -6.0, depth = 6
iter = 728, queue = 1443, heur = -6.0, depth = 6
iter = 729, queue = 1446, heur = -6.0, depth = 6
iter = 730, queue = 1447, heur = -6.0, depth = 6
iter = 731, queue = 1450, heur = -6.0, depth = 6
iter = 732, queue = 1453, heur = -6.0, depth = 6
iter = 733, queue = 1456, heur = -6.0, depth = 6
iter = 734, queue = 1459, heur = -6.0, depth = 6
iter = 735, queue = 1460, heur = -6.0, depth = 6
iter = 736, queue = 1463, heur = -6.0, depth = 6
iter = 737, queue = 1466, heur = -6.0, depth = 6
iter = 738, queue = 1469, heur = -6.0, depth = 6
iter = 739, queue = 1472, heur = -6.0, depth = 6
iter = 740, queue = 1473, heur = -6.0, depth = 6
iter = 741, queue = 1476, heur = -6.0, depth = 6
iter = 742, queue = 1478, heur = -6.0, depth = 6
iter = 743, queue = 1478, heur = -6.0, depth = 6
iter = 744, queue = 1481, heur = -6.0, depth = 6
iter = 745, queue = 1483, heur = -6.0, depth = 6
iter = 746, queue = 1484, heur = -6.0, depth = 6
iter = 747, queue = 1485, heur = -6.0, depth = 6
iter = 748, queue = 1486, heur = -6.0, depth = 6
iter = 749, queue = 1487, heur = -6.0, depth = 6
iter = 750, queue = 1488, heur = -6.0, depth = 6
iter = 751, queue = 1491, heur = -6.0, depth = 6
iter = 752, queue = 1491, heur = -6.0, depth = 6
iter = 753, queue = 1492, heur = -6.0, depth = 7
iter = 754, queue = 1494, heur = -6.0, depth = 6
iter = 755, queue = 1497, heur = -6.0, depth = 6
iter = 756, queue = 1498, heur = -6.0, depth = 6
iter = 757, queue = 1500, heur = -6.0, depth = 7
iter = 758, queue = 1501, heur = -6.0, depth = 6
iter = 759, queue = 1504, heur = -6.0, depth = 6
iter = 760, queue = 1507, heur = -6.0, depth = 7
iter = 761, queue = 1510, heur = -6.0, depth = 6
iter = 762, queue = 1512, heur = -6.0, depth = 6
iter = 763, queue = 1513, heur = -6.0, depth = 6
iter = 764, queue = 1516, heur = -6.0, depth = 6
iter = 765, queue = 1517, heur = -6.0, depth = 6
```

```
iter = 766, queue = 1519, heur = -6.0, depth = 6
iter = 767, queue = 1519, heur = -6.0, depth = 6
iter = 768, queue = 1522, heur = -6.0, depth = 6
iter = 769, queue = 1523, heur = -6.0, depth = 6
iter = 770, queue = 1525, heur = -6.0, depth = 6
iter = 771, queue = 1525, heur = -6.0, depth = 6
iter = 772, queue = 1528, heur = -6.0, depth = 6
iter = 773, queue = 1529, heur = -6.0, depth = 6
iter = 774, queue = 1532, heur = -6.0, depth = 6
iter = 775, queue = 1534, heur = -6.0, depth = 6
iter = 776, queue = 1534, heur = -6.0, depth = 6
iter = 777, queue = 1537, heur = -6.0, depth = 6
iter = 778, queue = 1538, heur = -6.0, depth = 6
iter = 779, queue = 1541, heur = -6.0, depth = 6
iter = 780, queue = 1544, heur = -6.0, depth = 6
iter = 781, queue = 1547, heur = -6.0, depth = 6
iter = 782, queue = 1550, heur = -6.0, depth = 6
iter = 783, queue = 1553, heur = -6.0, depth = 6
iter = 784, queue = 1554, heur = -6.0, depth = 6
iter = 785, queue = 1557, heur = -6.0, depth = 6
iter = 786, queue = 1558, heur = -6.0, depth = 6
iter = 787, queue = 1559, heur = -6.0, depth = 6
iter = 788, queue = 1560, heur = -6.0, depth = 6
iter = 789, queue = 1561, heur = -6.0, depth = 6
iter = 790, queue = 1561, heur = -6.0, depth = 6
iter = 791, queue = 1563, heur = -6.0, depth = 6
iter = 792, queue = 1566, heur = -6.0, depth = 6
iter = 793, queue = 1569, heur = -6.0, depth = 6
iter = 794, queue = 1571, heur = -6.0, depth = 6
iter = 795, queue = 1572, heur = -6.0, depth = 6
iter = 796, queue = 1575, heur = -6.0, depth = 6
iter = 797, queue = 1575, heur = -6.0, depth = 6
iter = 798, queue = 1578, heur = -6.0, depth = 6
iter = 799, queue = 1581, heur = -6.0, depth = 6
iter = 800, queue = 1583, heur = -6.0, depth = 6
iter = 801, queue = 1586, heur = -6.0, depth = 6
iter = 802, queue = 1587, heur = -6.0, depth = 6
iter = 803, queue = 1588, heur = -6.0, depth = 6
iter = 804, queue = 1591, heur = -6.0, depth = 6
iter = 805, queue = 1594, heur = -6.0, depth = 6
iter = 806, queue = 1594, heur = -6.0, depth = 6
iter = 807, queue = 1595, heur = -6.0, depth = 7
iter = 808, queue = 1598, heur = -6.0, depth = 6
iter = 809, queue = 1601, heur = -6.0, depth = 6
iter = 810, queue = 1603, heur = -6.0, depth = 6
iter = 811, queue = 1602, heur = -6.0, depth = 6
iter = 812, queue = 1602, heur = -6.0, depth = 6
iter = 813, queue = 1603, heur = -6.0, depth = 7
iter = 814, queue = 1604, heur = -6.0, depth = 6
iter = 815, queue = 1607, heur = -6.0, depth = 6
iter = 816, queue = 1610, heur = -6.0, depth = 7
iter = 817, queue = 1611, heur = -6.0, depth = 6
iter = 818, queue = 1614, heur = -6.0, depth = 6
iter = 819, queue = 1617, heur = -6.0, depth = 6
iter = 820, queue = 1620, heur = -6.0, depth = 7
iter = 821, queue = 1621, heur = -6.0, depth = 6
iter = 822, queue = 1622, heur = -6.0, depth = 6
iter = 823, queue = 1623, heur = -6.0, depth = 7
iter = 824, queue = 1626, heur = -6.0, depth = 7
```

```
iter = 825, queue = 1627, heur = -6.0, depth = 6
iter = 826, queue = 1628, heur = -6.0, depth = 6
iter = 827, queue = 1631, heur = -6.0, depth = 6
iter = 828, queue = 1634, heur = -6.0, depth = 8
iter = 829, queue = 1637, heur = -6.0, depth = 6
iter = 830, queue = 1638, heur = -6.0, depth = 7
iter = 831, queue = 1640, heur = -6.0, depth = 6
iter = 832, queue = 1643, heur = -6.0, depth = 6
iter = 833, queue = 1646, heur = -6.0, depth = 9
iter = 834, queue = 1648, heur = -6.0, depth = 7
iter = 835, queue = 1651, heur = -6.0, depth = 7
iter = 836, queue = 1654, heur = -6.0, depth = 6
iter = 837, queue = 1657, heur = -6.0, depth = 7
iter = 838, queue = 1660, heur = -6.0, depth = 10
iter = 839, queue = 1663, heur = -6.0, depth = 6
iter = 840, queue = 1666, heur = -6.0, depth = 6
iter = 841, queue = 1668, heur = -6.0, depth = 7
iter = 842, queue = 1670, heur = -6.0, depth = 6
iter = 843, queue = 1671, heur = -6.0, depth = 6
iter = 844, queue = 1674, heur = -6.0, depth = 6
iter = 845, queue = 1677, heur = -6.0, depth = 6
iter = 846, queue = 1678, heur = -6.0, depth = 6
iter = 847, queue = 1681, heur = -6.0, depth = 6
iter = 848, queue = 1682, heur = -6.0, depth = 6
iter = 849, queue = 1683, heur = -6.0, depth = 6
iter = 850, queue = 1686, heur = -6.0, depth = 6
iter = 851, queue = 1688, heur = -6.0, depth = 7
iter = 852, queue = 1691, heur = -6.0, depth = 6
iter = 853, queue = 1692, heur = -6.0, depth = 6
iter = 854, queue = 1693, heur = -6.0, depth = 6
iter = 855, queue = 1695, heur = -6.0, depth = 7
iter = 856, queue = 1696, heur = -6.0, depth = 6
iter = 857, queue = 1696, heur = -6.0, depth = 6
iter = 858, queue = 1697, heur = -6.0, depth = 6
iter = 859, queue = 1698, heur = -6.0, depth = 6
iter = 860, queue = 1700, heur = -6.0, depth = 6
iter = 861, queue = 1701, heur = -6.0, depth = 6
iter = 862, queue = 1704, heur = -6.0, depth = 6
iter = 863, queue = 1703, heur = -6.0, depth = 6
iter = 864, queue = 1704, heur = -6.0, depth = 6
iter = 865, queue = 1705, heur = -6.0, depth = 6
iter = 866, queue = 1708, heur = -6.0, depth = 7
iter = 867, queue = 1711, heur = -6.0, depth = 6
iter = 868, queue = 1714, heur = -6.0, depth = 6
iter = 869, queue = 1717, heur = -6.0, depth = 6
iter = 870, queue = 1719, heur = -6.0, depth = 7
iter = 871, queue = 1720, heur = -6.0, depth = 6
iter = 872, queue = 1723, heur = -6.0, depth = 6
iter = 873, queue = 1726, heur = -6.0, depth = 6
iter = 874, queue = 1729, heur = -6.0, depth = 7
iter = 875, queue = 1731, heur = -6.0, depth = 6
iter = 876, queue = 1734, heur = -6.0, depth = 6
iter = 877, queue = 1735, heur = -6.0, depth = 6
iter = 878, queue = 1738, heur = -6.0, depth = 6
iter = 879, queue = 1739, heur = -6.0, depth = 7
iter = 880, queue = 1741, heur = -6.0, depth = 6
iter = 881, queue = 1744, heur = -6.0, depth = 8
iter = 882, queue = 1746, heur = -6.0, depth = 6
iter = 883, queue = 1749, heur = -6.0, depth = 6
```

```
iter = 884, queue = 1752, heur = -6.0, depth = 6
iter = 885, queue = 1755, heur = -6.0, depth = 6
iter = 886, queue = 1757, heur = -6.0, depth = 6
iter = 887, queue = 1758, heur = -6.0, depth = 6
iter = 888, queue = 1760, heur = -6.0, depth = 6
iter = 889, queue = 1761, heur = -6.0, depth = 6
iter = 890, queue = 1761, heur = -6.0, depth = 6
iter = 891, queue = 1760, heur = -6.0, depth = 6
iter = 892, queue = 1763, heur = -6.0, depth = 6
iter = 893, queue = 1764, heur = -6.0, depth = 6
iter = 894, queue = 1767, heur = -6.0, depth = 6
iter = 895, queue = 1770, heur = -6.0, depth = 7
iter = 896, queue = 1770, heur = -6.0, depth = 6
iter = 897, queue = 1773, heur = -6.0, depth = 6
iter = 898, queue = 1776, heur = -6.0, depth = 6
iter = 899, queue = 1777, heur = -6.0, depth = 6
iter = 900, queue = 1780, heur = -6.0, depth = 6
iter = 901, queue = 1783, heur = -6.0, depth = 6
iter = 902, queue = 1785, heur = -6.0, depth = 6
iter = 903, queue = 1787, heur = -6.0, depth = 6
iter = 904, queue = 1788, heur = -6.0, depth = 6
iter = 905, queue = 1791, heur = -6.0, depth = 7
iter = 906, queue = 1794, heur = -6.0, depth = 6
iter = 907, queue = 1795, heur = -6.0, depth = 6
iter = 908, queue = 1796, heur = -6.0, depth = 6
iter = 909, queue = 1799, heur = -6.0, depth = 6
iter = 910, queue = 1802, heur = -6.0, depth = 7
iter = 911, queue = 1805, heur = -6.0, depth = 6
iter = 912, queue = 1808, heur = -6.0, depth = 6
iter = 913, queue = 1810, heur = -6.0, depth = 6
iter = 914, queue = 1811, heur = -6.0, depth = 6
iter = 915, queue = 1814, heur = -6.0, depth = 6
iter = 916, queue = 1813, heur = -6.0, depth = 6
iter = 917, queue = 1815, heur = -6.0, depth = 7
iter = 918, queue = 1815, heur = -6.0, depth = 6
iter = 919, queue = 1815, heur = -6.0, depth = 6
iter = 920, queue = 1818, heur = -6.0, depth = 7
iter = 921, queue = 1819, heur = -6.0, depth = 6
iter = 922, queue = 1822, heur = -6.0, depth = 6
iter = 923, queue = 1825, heur = -6.0, depth = 6
iter = 924, queue = 1826, heur = -6.0, depth = 6
iter = 925, queue = 1829, heur = -6.0, depth = 7
iter = 926, queue = 1832, heur = -6.0, depth = 6
iter = 927, queue = 1833, heur = -6.0, depth = 6
iter = 928, queue = 1834, heur = -6.0, depth = 6
iter = 929, queue = 1836, heur = -6.0, depth = 6
iter = 930, queue = 1837, heur = -6.0, depth = 6
iter = 931, queue = 1840, heur = -6.0, depth = 6
iter = 932, queue = 1843, heur = -6.0, depth = 6
iter = 933, queue = 1844, heur = -6.0, depth = 6
iter = 934, queue = 1844, heur = -6.0, depth = 6
iter = 935, queue = 1845, heur = -6.0, depth = 6
iter = 936, queue = 1848, heur = -6.0, depth = 6
iter = 937, queue = 1849, heur = -6.0, depth = 6
iter = 938, queue = 1852, heur = -6.0, depth = 6
iter = 939, queue = 1855, heur = -6.0, depth = 6
iter = 940, queue = 1855, heur = -6.0, depth = 6
iter = 941, queue = 1858, heur = -6.0, depth = 6
iter = 942, queue = 1861, heur = -6.0, depth = 7
```

```
iter = 943, queue = 1862, heur = -6.0, depth = 6
iter = 944, queue = 1865, heur = -6.0, depth = 7
iter = 945, queue = 1866, heur = -6.0, depth = 7
iter = 946, queue = 1867, heur = -6.0, depth = 7
iter = 947, queue = 1869, heur = -6.0, depth = 6
iter = 948, queue = 1872, heur = -6.0, depth = 6
iter = 949, queue = 1872, heur = -6.0, depth = 6
iter = 950, queue = 1871, heur = -6.0, depth = 6
iter = 951, queue = 1874, heur = -6.0, depth = 6
iter = 952, queue = 1877, heur = -6.0, depth = 6
iter = 953, queue = 1878, heur = -6.0, depth = 6
iter = 954, queue = 1879, heur = -6.0, depth = 6
iter = 955, queue = 1882, heur = -6.0, depth = 6
iter = 956, queue = 1883, heur = -6.0, depth = 7
iter = 957, queue = 1886, heur = -6.0, depth = 6
iter = 958, queue = 1889, heur = -6.0, depth = 6
iter = 959, queue = 1890, heur = -6.0, depth = 6
iter = 960, queue = 1890, heur = -6.0, depth = 6
iter = 961, queue = 1893, heur = -6.0, depth = 6
iter = 962, queue = 1896, heur = -6.0, depth = 6
iter = 963, queue = 1899, heur = -6.0, depth = 6
iter = 964, queue = 1900, heur = -6.0, depth = 6
iter = 965, queue = 1901, heur = -6.0, depth = 6
iter = 966, queue = 1904, heur = -6.0, depth = 6
iter = 967, queue = 1906, heur = -6.0, depth = 6
iter = 968, queue = 1907, heur = -6.0, depth = 6
iter = 969, queue = 1906, heur = -6.0, depth = 6
iter = 970, queue = 1909, heur = -6.0, depth = 6
iter = 971, queue = 1911, heur = -6.0, depth = 6
iter = 972, queue = 1913, heur = -6.0, depth = 6
iter = 973, queue = 1914, heur = -6.0, depth = 6
iter = 974, queue = 1917, heur = -6.0, depth = 6
iter = 975, queue = 1918, heur = -6.0, depth = 6
iter = 976, queue = 1921, heur = -6.0, depth = 6
iter = 977, queue = 1924, heur = -6.0, depth = 6
iter = 978, queue = 1926, heur = -6.0, depth = 6
iter = 979, queue = 1925, heur = -6.0, depth = 6
iter = 980, queue = 1928, heur = -6.0, depth = 6
iter = 981, queue = 1931, heur = -6.0, depth = 6
iter = 982, queue = 1931, heur = -6.0, depth = 6
iter = 983, queue = 1932, heur = -6.0, depth = 6
iter = 984, queue = 1935, heur = -6.0, depth = 6
iter = 985, queue = 1938, heur = -6.0, depth = 6
iter = 986, queue = 1939, heur = -6.0, depth = 6
iter = 987, queue = 1939, heur = -6.0, depth = 6
iter = 988, queue = 1942, heur = -6.0, depth = 6
iter = 989, queue = 1943, heur = -6.0, depth = 6
iter = 990, queue = 1946, heur = -6.0, depth = 6
iter = 991, queue = 1947, heur = -6.0, depth = 6
iter = 992, queue = 1950, heur = -6.0, depth = 6
iter = 993, queue = 1949, heur = -6.0, depth = 6
iter = 994, queue = 1950, heur = -6.0, depth = 6
iter = 995, queue = 1953, heur = -6.0, depth = 6
iter = 996, queue = 1956, heur = -6.0, depth = 6
iter = 997, queue = 1957, heur = -6.0, depth = 6
iter = 998, queue = 1958, heur = -6.0, depth = 6
iter = 999, queue = 1961, heur = -6.0, depth = 6
iter = 1000, queue = 1963, heur = -6.0, depth = 6
iter = 1001, queue = 1965, heur = -6.0, depth = 6
```

```
iter = 1002, queue = 1965, heur = -6.0, depth = 6
iter = 1003, queue = 1968, heur = -6.0, depth = 6
iter = 1004, queue = 1971, heur = -6.0, depth = 6
iter = 1005, queue = 1972, heur = -6.0, depth = 6
iter = 1006, queue = 1975, heur = -6.0, depth = 6
iter = 1007, queue = 1976, heur = -6.0, depth = 6
iter = 1008, queue = 1979, heur = -6.0, depth = 7
iter = 1009, queue = 1981, heur = -6.0, depth = 6
iter = 1010, queue = 1980, heur = -6.0, depth = 6
iter = 1011, queue = 1983, heur = -6.0, depth = 6
iter = 1012, queue = 1984, heur = -6.0, depth = 6
iter = 1013, queue = 1983, heur = -6.0, depth = 6
iter = 1014, queue = 1985, heur = -6.0, depth = 6
iter = 1015, queue = 1986, heur = -6.0, depth = 6
iter = 1016, queue = 1988, heur = -6.0, depth = 6
iter = 1017, queue = 1991, heur = -6.0, depth = 6
iter = 1018, queue = 1993, heur = -6.0, depth = 7
iter = 1019, queue = 1992, heur = -6.0, depth = 6
iter = 1020, queue = 1995, heur = -6.0, depth = 6
iter = 1021, queue = 1996, heur = -6.0, depth = 6
iter = 1022, queue = 1995, heur = -6.0, depth = 6
iter = 1023, queue = 1995, heur = -6.0, depth = 6
iter = 1024, queue = 1995, heur = -6.0, depth = 6
iter = 1025, queue = 1998, heur = -6.0, depth = 6
iter = 1026, queue = 1999, heur = -6.0, depth = 6
iter = 1027, queue = 2002, heur = -6.0, depth = 6
iter = 1028, queue = 2003, heur = -6.0, depth = 6
iter = 1029, queue = 2004, heur = -6.0, depth = 6
iter = 1030, queue = 2003, heur = -6.0, depth = 7
iter = 1031, queue = 2006, heur = -6.0, depth = 6
iter = 1032, queue = 2009, heur = -6.0, depth = 6
iter = 1033, queue = 2012, heur = -6.0, depth = 6
iter = 1034, queue = 2015, heur = -6.0, depth = 6
iter = 1035, queue = 2016, heur = -6.0, depth = 6
iter = 1036, queue = 2019, heur = -6.0, depth = 6
iter = 1037, queue = 2020, heur = -6.0, depth = 6
iter = 1038, queue = 2021, heur = -6.0, depth = 6
iter = 1039, queue = 2021, heur = -6.0, depth = 6
iter = 1040, queue = 2022, heur = -6.0, depth = 6
iter = 1041, queue = 2023, heur = -6.0, depth = 6
iter = 1042, queue = 2025, heur = -6.0, depth = 6
iter = 1043, queue = 2028, heur = -6.0, depth = 6
iter = 1044, queue = 2031, heur = -6.0, depth = 6
iter = 1045, queue = 2032, heur = -6.0, depth = 6
iter = 1046, queue = 2033, heur = -6.0, depth = 6
iter = 1047, queue = 2033, heur = -6.0, depth = 7
iter = 1048, queue = 2035, heur = -6.0, depth = 6
iter = 1049, queue = 2038, heur = -6.0, depth = 6
iter = 1050, queue = 2037, heur = -6.0, depth = 7
iter = 1051, queue = 2040, heur = -6.0, depth = 7
iter = 1052, queue = 2043, heur = -6.0, depth = 6
iter = 1053, queue = 2046, heur = -6.0, depth = 6
iter = 1054, queue = 2049, heur = -6.0, depth = 9
iter = 1055, queue = 2050, heur = -6.0, depth = 6
iter = 1056, queue = 2051, heur = -6.0, depth = 6
iter = 1057, queue = 2054, heur = -6.0, depth = 6
iter = 1058, queue = 2054, heur = -6.0, depth = 6
iter = 1059, queue = 2057, heur = -6.0, depth = 6
iter = 1060, queue = 2057, heur = -6.0, depth = 6
```

```
iter = 1061, queue = 2060, heur = -6.0, depth = 6
iter = 1062, queue = 2063, heur = -6.0, depth = 6
iter = 1063, queue = 2065, heur = -6.0, depth = 6
iter = 1064, queue = 2068, heur = -6.0, depth = 6
iter = 1065, queue = 2068, heur = -6.0, depth = 6
iter = 1066, queue = 2067, heur = -6.0, depth = 6
iter = 1067, queue = 2068, heur = -6.0, depth = 6
iter = 1068, queue = 2071, heur = -6.0, depth = 6
iter = 1069, queue = 2074, heur = -6.0, depth = 6
iter = 1070, queue = 2077, heur = -6.0, depth = 6
iter = 1071, queue = 2079, heur = -6.0, depth = 7
iter = 1072, queue = 2081, heur = -6.0, depth = 6
iter = 1073, queue = 2082, heur = -6.0, depth = 6
iter = 1074, queue = 2085, heur = -6.0, depth = 6
iter = 1075, queue = 2085, heur = -6.0, depth = 6
iter = 1076, queue = 2088, heur = -6.0, depth = 6
iter = 1077, queue = 2089, heur = -6.0, depth = 6
iter = 1078, queue = 2089, heur = -6.0, depth = 6
iter = 1079, queue = 2088, heur = -6.0, depth = 6
iter = 1080, queue = 2089, heur = -6.0, depth = 6
iter = 1081, queue = 2092, heur = -6.0, depth = 6
iter = 1082, queue = 2095, heur = -6.0, depth = 6
iter = 1083, queue = 2098, heur = -6.0, depth = 6
iter = 1084, queue = 2101, heur = -6.0, depth = 6
iter = 1085, queue = 2103, heur = -6.0, depth = 6
iter = 1086, queue = 2103, heur = -6.0, depth = 6
iter = 1087, queue = 2104, heur = -6.0, depth = 6
iter = 1088, queue = 2107, heur = -6.0, depth = 6
iter = 1089, queue = 2110, heur = -6.0, depth = 6
iter = 1090, queue = 2109, heur = -6.0, depth = 6
iter = 1091, queue = 2111, heur = -6.0, depth = 6
iter = 1092, queue = 2114, heur = -6.0, depth = 6
iter = 1093, queue = 2115, heur = -6.0, depth = 6
iter = 1094, queue = 2118, heur = -6.0, depth = 6
iter = 1095, queue = 2120, heur = -6.0, depth = 6
iter = 1096, queue = 2123, heur = -6.0, depth = 6
iter = 1097, queue = 2125, heur = -6.0, depth = 6
iter = 1098, queue = 2124, heur = -6.0, depth = 6
iter = 1099, queue = 2127, heur = -6.0, depth = 6
iter = 1100, queue = 2130, heur = -6.0, depth = 6
iter = 1101, queue = 2133, heur = -6.0, depth = 6
iter = 1102, queue = 2136, heur = -6.0, depth = 7
iter = 1103, queue = 2137, heur = -6.0, depth = 6
iter = 1104, queue = 2137, heur = -6.0, depth = 6
iter = 1105, queue = 2140, heur = -6.0, depth = 6
iter = 1106, queue = 2140, heur = -6.0, depth = 6
iter = 1107, queue = 2142, heur = -6.0, depth = 6
iter = 1108, queue = 2145, heur = -6.0, depth = 6
iter = 1109, queue = 2146, heur = -6.0, depth = 6
iter = 1110, queue = 2149, heur = -6.0, depth = 6
iter = 1111, queue = 2151, heur = -6.0, depth = 6
iter = 1112, queue = 2152, heur = -6.0, depth = 6
iter = 1113, queue = 2152, heur = -6.0, depth = 6
iter = 1114, queue = 2155, heur = -6.0, depth = 6
iter = 1115, queue = 2156, heur = -6.0, depth = 6
iter = 1116, queue = 2155, heur = -6.0, depth = 6
iter = 1117, queue = 2158, heur = -6.0, depth = 6
iter = 1118, queue = 2159, heur = -6.0, depth = 6
iter = 1119, queue = 2160, heur = -6.0, depth = 6
```

```
iter = 1120, queue = 2161, heur = -6.0, depth = 7
iter = 1121, queue = 2164, heur = -6.0, depth = 6
iter = 1122, queue = 2167, heur = -6.0, depth = 6
iter = 1123, queue = 2168, heur = -6.0, depth = 6
iter = 1124, queue = 2168, heur = -6.0, depth = 6
iter = 1125, queue = 2171, heur = -6.0, depth = 6
iter = 1126, queue = 2174, heur = -6.0, depth = 6
iter = 1127, queue = 2177, heur = -6.0, depth = 6
iter = 1128, queue = 2180, heur = -6.0, depth = 6
iter = 1129, queue = 2183, heur = -6.0, depth = 6
iter = 1130, queue = 2184, heur = -6.0, depth = 6
iter = 1131, queue = 2183, heur = -6.0, depth = 6
iter = 1132, queue = 2186, heur = -6.0, depth = 7
iter = 1133, queue = 2189, heur = -6.0, depth = 7
iter = 1134, queue = 2192, heur = -6.0, depth = 6
iter = 1135, queue = 2195, heur = -6.0, depth = 7
iter = 1136, queue = 2198, heur = -6.0, depth = 6
iter = 1137, queue = 2199, heur = -6.0, depth = 6
iter = 1138, queue = 2200, heur = -6.0, depth = 6
iter = 1139, queue = 2201, heur = -6.0, depth = 7
iter = 1140, queue = 2203, heur = -6.0, depth = 6
iter = 1141, queue = 2205, heur = -6.0, depth = 6
iter = 1142, queue = 2206, heur = -6.0, depth = 6
iter = 1143, queue = 2209, heur = -6.0, depth = 6
iter = 1144, queue = 2211, heur = -6.0, depth = 6
iter = 1145, queue = 2214, heur = -6.0, depth = 6
iter = 1146, queue = 2217, heur = -6.0, depth = 6
iter = 1147, queue = 2218, heur = -6.0, depth = 6
iter = 1148, queue = 2218, heur = -6.0, depth = 6
iter = 1149, queue = 2220, heur = -6.0, depth = 6
iter = 1150, queue = 2221, heur = -6.0, depth = 6
iter = 1151, queue = 2224, heur = -6.0, depth = 6
iter = 1152, queue = 2224, heur = -6.0, depth = 6
iter = 1153, queue = 2224, heur = -6.0, depth = 6
iter = 1154, queue = 2225, heur = -6.0, depth = 6
iter = 1155, queue = 2228, heur = -6.0, depth = 6
iter = 1156, queue = 2229, heur = -6.0, depth = 6
iter = 1157, queue = 2230, heur = -6.0, depth = 6
iter = 1158, queue = 2233, heur = -6.0, depth = 6
iter = 1159, queue = 2233, heur = -6.0, depth = 6
iter = 1160, queue = 2236, heur = -6.0, depth = 6
iter = 1161, queue = 2237, heur = -6.0, depth = 6
iter = 1162, queue = 2238, heur = -6.0, depth = 6
iter = 1163, queue = 2241, heur = -6.0, depth = 6
iter = 1164, queue = 2240, heur = -6.0, depth = 6
iter = 1165, queue = 2241, heur = -6.0, depth = 6
iter = 1166, queue = 2244, heur = -6.0, depth = 6
iter = 1167, queue = 2245, heur = -6.0, depth = 7
iter = 1168, queue = 2248, heur = -6.0, depth = 6
iter = 1169, queue = 2250, heur = -6.0, depth = 7
iter = 1170, queue = 2251, heur = -6.0, depth = 6
iter = 1171, queue = 2252, heur = -6.0, depth = 6
iter = 1172, queue = 2254, heur = -6.0, depth = 6
iter = 1173, queue = 2257, heur = -6.0, depth = 7
iter = 1174, queue = 2260, heur = -6.0, depth = 6
iter = 1175, queue = 2261, heur = -6.0, depth = 6
iter = 1176, queue = 2263, heur = -6.0, depth = 6
iter = 1177, queue = 2263, heur = -6.0, depth = 6
iter = 1178, queue = 2266, heur = -6.0, depth = 6
```

```
iter = 1179, queue = 2269, heur = -6.0, depth = 6
iter = 1180, queue = 2268, heur = -6.0, depth = 6
iter = 1181, queue = 2271, heur = -6.0, depth = 6
iter = 1182, queue = 2274, heur = -6.0, depth = 6
iter = 1183, queue = 2277, heur = -6.0, depth = 6
iter = 1184, queue = 2280, heur = -6.0, depth = 7
iter = 1185, queue = 2281, heur = -6.0, depth = 6
iter = 1186, queue = 2284, heur = -6.0, depth = 7
iter = 1187, queue = 2283, heur = -6.0, depth = 6
iter = 1188, queue = 2284, heur = -6.0, depth = 6
iter = 1189, queue = 2284, heur = -6.0, depth = 6
iter = 1190, queue = 2287, heur = -6.0, depth = 6
iter = 1191, queue = 2287, heur = -6.0, depth = 6
iter = 1192, queue = 2290, heur = -6.0, depth = 7
iter = 1193, queue = 2291, heur = -6.0, depth = 7
iter = 1194, queue = 2293, heur = -6.0, depth = 6
iter = 1195, queue = 2295, heur = -6.0, depth = 6
iter = 1196, queue = 2295, heur = -6.0, depth = 6
iter = 1197, queue = 2296, heur = -6.0, depth = 6
iter = 1198, queue = 2299, heur = -6.0, depth = 6
iter = 1199, queue = 2301, heur = -6.0, depth = 6
iter = 1200, queue = 2304, heur = -6.0, depth = 6
iter = 1201, queue = 2305, heur = -6.0, depth = 6
iter = 1202, queue = 2307, heur = -6.0, depth = 6
iter = 1203, queue = 2309, heur = -6.0, depth = 6
iter = 1204, queue = 2309, heur = -6.0, depth = 6
iter = 1205, queue = 2310, heur = -6.0, depth = 6
iter = 1206, queue = 2311, heur = -6.0, depth = 6
iter = 1207, queue = 2313, heur = -6.0, depth = 6
iter = 1208, queue = 2316, heur = -6.0, depth = 6
iter = 1209, queue = 2318, heur = -6.0, depth = 6
iter = 1210, queue = 2321, heur = -6.0, depth = 6
iter = 1211, queue = 2320, heur = -6.0, depth = 6
iter = 1212, queue = 2322, heur = -6.0, depth = 6
iter = 1213, queue = 2323, heur = -6.0, depth = 6
iter = 1214, queue = 2326, heur = -6.0, depth = 6
iter = 1215, queue = 2329, heur = -6.0, depth = 6
iter = 1216, queue = 2330, heur = -6.0, depth = 6
iter = 1217, queue = 2332, heur = -6.0, depth = 6
iter = 1218, queue = 2333, heur = -6.0, depth = 6
iter = 1219, queue = 2334, heur = -6.0, depth = 6
iter = 1220, queue = 2336, heur = -6.0, depth = 6
iter = 1221, queue = 2337, heur = -6.0, depth = 7
iter = 1222, queue = 2338, heur = -6.0, depth = 6
iter = 1223, queue = 2341, heur = -6.0, depth = 6
iter = 1224, queue = 2344, heur = -6.0, depth = 6
iter = 1225, queue = 2345, heur = -6.0, depth = 6
iter = 1226, queue = 2344, heur = -6.0, depth = 6
iter = 1227, queue = 2347, heur = -6.0, depth = 6
iter = 1228, queue = 2350, heur = -6.0, depth = 7
iter = 1229, queue = 2351, heur = -6.0, depth = 6
iter = 1230, queue = 2354, heur = -6.0, depth = 6
iter = 1231, queue = 2356, heur = -6.0, depth = 6
iter = 1232, queue = 2357, heur = -6.0, depth = 6
iter = 1233, queue = 2356, heur = -6.0, depth = 6
iter = 1234, queue = 2357, heur = -6.0, depth = 6
iter = 1235, queue = 2359, heur = -6.0, depth = 6
iter = 1236, queue = 2362, heur = -6.0, depth = 6
iter = 1237, queue = 2362, heur = -6.0, depth = 6
```

```
iter = 1238, queue = 2364, heur = -6.0, depth = 6
iter = 1239, queue = 2367, heur = -6.0, depth = 6
iter = 1240, queue = 2366, heur = -6.0, depth = 6
iter = 1241, queue = 2368, heur = -6.0, depth = 6
iter = 1242, queue = 2370, heur = -6.0, depth = 6
iter = 1243, queue = 2369, heur = -6.0, depth = 6
iter = 1244, queue = 2370, heur = -6.0, depth = 6
iter = 1245, queue = 2373, heur = -6.0, depth = 6
iter = 1246, queue = 2376, heur = -6.0, depth = 6
iter = 1247, queue = 2375, heur = -6.0, depth = 6
iter = 1248, queue = 2378, heur = -6.0, depth = 6
iter = 1249, queue = 2381, heur = -6.0, depth = 6
iter = 1250, queue = 2383, heur = -6.0, depth = 6
iter = 1251, queue = 2385, heur = -6.0, depth = 6
iter = 1252, queue = 2386, heur = -6.0, depth = 6
iter = 1253, queue = 2386, heur = -6.0, depth = 7
iter = 1254, queue = 2389, heur = -6.0, depth = 6
iter = 1255, queue = 2391, heur = -6.0, depth = 6
iter = 1256, queue = 2394, heur = -6.0, depth = 6
iter = 1257, queue = 2395, heur = -6.0, depth = 8
iter = 1258, queue = 2398, heur = -6.0, depth = 6
iter = 1259, queue = 2401, heur = -6.0, depth = 6
iter = 1260, queue = 2402, heur = -6.0, depth = 6
iter = 1261, queue = 2403, heur = -6.0, depth = 6
iter = 1262, queue = 2404, heur = -6.0, depth = 6
iter = 1263, queue = 2405, heur = -6.0, depth = 6
iter = 1264, queue = 2408, heur = -6.0, depth = 6
iter = 1265, queue = 2409, heur = -6.0, depth = 6
iter = 1266, queue = 2409, heur = -6.0, depth = 6
iter = 1267, queue = 2408, heur = -6.0, depth = 6
iter = 1268, queue = 2409, heur = -6.0, depth = 7
iter = 1269, queue = 2410, heur = -6.0, depth = 6
iter = 1270, queue = 2411, heur = -6.0, depth = 6
iter = 1271, queue = 2414, heur = -6.0, depth = 6
iter = 1272, queue = 2415, heur = -6.0, depth = 6
iter = 1273, queue = 2416, heur = -6.0, depth = 6
iter = 1274, queue = 2419, heur = -6.0, depth = 6
iter = 1275, queue = 2422, heur = -6.0, depth = 6
iter = 1276, queue = 2424, heur = -6.0, depth = 6
iter = 1277, queue = 2427, heur = -6.0, depth = 6
iter = 1278, queue = 2429, heur = -6.0, depth = 6
iter = 1279, queue = 2429, heur = -6.0, depth = 6
iter = 1280, queue = 2431, heur = -6.0, depth = 6
iter = 1281, queue = 2432, heur = -6.0, depth = 6
iter = 1282, queue = 2432, heur = -6.0, depth = 6
iter = 1283, queue = 2433, heur = -6.0, depth = 6
iter = 1284, queue = 2436, heur = -6.0, depth = 6
iter = 1285, queue = 2437, heur = -6.0, depth = 6
iter = 1286, queue = 2438, heur = -6.0, depth = 6
iter = 1287, queue = 2439, heur = -6.0, depth = 6
iter = 1288, queue = 2440, heur = -6.0, depth = 6
iter = 1289, queue = 2441, heur = -6.0, depth = 6
iter = 1290, queue = 2442, heur = -6.0, depth = 6
iter = 1291, queue = 2443, heur = -6.0, depth = 6
iter = 1292, queue = 2443, heur = -6.0, depth = 6
iter = 1293, queue = 2444, heur = -6.0, depth = 6
iter = 1294, queue = 2446, heur = -6.0, depth = 6
iter = 1295, queue = 2448, heur = -6.0, depth = 6
iter = 1296, queue = 2451, heur = -6.0, depth = 6
```

```
iter = 1297, queue = 2452, heur = -6.0, depth = 6
iter = 1298, queue = 2451, heur = -6.0, depth = 6
iter = 1299, queue = 2454, heur = -6.0, depth = 6
iter = 1300, queue = 2457, heur = -6.0, depth = 6
iter = 1301, queue = 2460, heur = -6.0, depth = 6
iter = 1302, queue = 2463, heur = -6.0, depth = 6
iter = 1303, queue = 2465, heur = -6.0, depth = 6
iter = 1304, queue = 2468, heur = -6.0, depth = 6
iter = 1305, queue = 2469, heur = -6.0, depth = 6
iter = 1306, queue = 2468, heur = -6.0, depth = 6
iter = 1307, queue = 2467, heur = -6.0, depth = 6
iter = 1308, queue = 2470, heur = -6.0, depth = 6
iter = 1309, queue = 2469, heur = -6.0, depth = 6
iter = 1310, queue = 2468, heur = -6.0, depth = 6
iter = 1311, queue = 2470, heur = -6.0, depth = 6
iter = 1312, queue = 2469, heur = -6.0, depth = 6
iter = 1313, queue = 2472, heur = -6.0, depth = 6
iter = 1314, queue = 2475, heur = -6.0, depth = 6
iter = 1315, queue = 2477, heur = -6.0, depth = 6
iter = 1316, queue = 2480, heur = -6.0, depth = 6
iter = 1317, queue = 2481, heur = -6.0, depth = 6
iter = 1318, queue = 2482, heur = -6.0, depth = 6
iter = 1319, queue = 2485, heur = -6.0, depth = 6
iter = 1320, queue = 2486, heur = -6.0, depth = 6
iter = 1321, queue = 2487, heur = -6.0, depth = 6
iter = 1322, queue = 2488, heur = -6.0, depth = 6
iter = 1323, queue = 2491, heur = -6.0, depth = 6
iter = 1324, queue = 2493, heur = -6.0, depth = 6
iter = 1325, queue = 2496, heur = -6.0, depth = 6
iter = 1326, queue = 2498, heur = -6.0, depth = 6
iter = 1327, queue = 2497, heur = -6.0, depth = 6
iter = 1328, queue = 2499, heur = -6.0, depth = 6
iter = 1329, queue = 2502, heur = -6.0, depth = 6
iter = 1330, queue = 2504, heur = -6.0, depth = 6
iter = 1331, queue = 2505, heur = -6.0, depth = 6
iter = 1332, queue = 2507, heur = -6.0, depth = 6
iter = 1333, queue = 2506, heur = -6.0, depth = 6
iter = 1334, queue = 2509, heur = -6.0, depth = 7
iter = 1335, queue = 2512, heur = -6.0, depth = 6
iter = 1336, queue = 2514, heur = -6.0, depth = 6
iter = 1337, queue = 2514, heur = -6.0, depth = 6
iter = 1338, queue = 2515, heur = -6.0, depth = 8
iter = 1339, queue = 2518, heur = -6.0, depth = 6
iter = 1340, queue = 2521, heur = -6.0, depth = 7
iter = 1341, queue = 2524, heur = -6.0, depth = 6
iter = 1342, queue = 2525, heur = -6.0, depth = 6
iter = 1343, queue = 2528, heur = -6.0, depth = 6
iter = 1344, queue = 2531, heur = -6.0, depth = 7
iter = 1345, queue = 2532, heur = -6.0, depth = 6
iter = 1346, queue = 2533, heur = -6.0, depth = 6
iter = 1347, queue = 2536, heur = -6.0, depth = 6
iter = 1348, queue = 2536, heur = -6.0, depth = 6
iter = 1349, queue = 2537, heur = -6.0, depth = 6
iter = 1350, queue = 2538, heur = -6.0, depth = 6
iter = 1351, queue = 2539, heur = -6.0, depth = 6
iter = 1352, queue = 2539, heur = -6.0, depth = 6
iter = 1353, queue = 2539, heur = -6.0, depth = 6
iter = 1354, queue = 2542, heur = -6.0, depth = 6
iter = 1355, queue = 2542, heur = -6.0, depth = 6
```

```
iter = 1356, queue = 2543, heur = -6.0, depth = 6
iter = 1357, queue = 2546, heur = -6.0, depth = 6
iter = 1358, queue = 2549, heur = -6.0, depth = 6
iter = 1359, queue = 2549, heur = -7.0, depth = 7
iter = 1360, queue = 2550, heur = -7.0, depth = 7
iter = 1361, queue = 2550, heur = -7.0, depth = 7
iter = 1362, queue = 2551, heur = -7.0, depth = 7
iter = 1363, queue = 2552, heur = -7.0, depth = 7
iter = 1364, queue = 2553, heur = -7.0, depth = 7
iter = 1365, queue = 2552, heur = -7.0, depth = 7
iter = 1366, queue = 2551, heur = -7.0, depth = 7
iter = 1367, queue = 2552, heur = -7.0, depth = 7
iter = 1368, queue = 2555, heur = -7.0, depth = 7
iter = 1369, queue = 2556, heur = -7.0, depth = 7
iter = 1370, queue = 2559, heur = -7.0, depth = 7
iter = 1371, queue = 2562, heur = -7.0, depth = 7
iter = 1372, queue = 2565, heur = -7.0, depth = 7
iter = 1373, queue = 2568, heur = -7.0, depth = 7
iter = 1374, queue = 2569, heur = -7.0, depth = 7
iter = 1375, queue = 2572, heur = -7.0, depth = 7
iter = 1376, queue = 2573, heur = -7.0, depth = 7
iter = 1377, queue = 2574, heur = -7.0, depth = 7
iter = 1378, queue = 2577, heur = -7.0, depth = 8
iter = 1379, queue = 2580, heur = -7.0, depth = 7
iter = 1380, queue = 2579, heur = -7.0, depth = 8
iter = 1381, queue = 2580, heur = -7.0, depth = 8
iter = 1382, queue = 2581, heur = -7.0, depth = 7
iter = 1383, queue = 2584, heur = -7.0, depth = 8
iter = 1384, queue = 2587, heur = -7.0, depth = 7
iter = 1385, queue = 2590, heur = -7.0, depth = 8
iter = 1386, queue = 2591, heur = -7.0, depth = 7
iter = 1387, queue = 2594, heur = -7.0, depth = 7
iter = 1388, queue = 2597, heur = -7.0, depth = 7
iter = 1389, queue = 2596, heur = -7.0, depth = 7
iter = 1390, queue = 2597, heur = -7.0, depth = 7
iter = 1391, queue = 2600, heur = -7.0, depth = 8
iter = 1392, queue = 2603, heur = -7.0, depth = 7
iter = 1393, queue = 2604, heur = -7.0, depth = 8
iter = 1394, queue = 2607, heur = -7.0, depth = 7
iter = 1395, queue = 2610, heur = -7.0, depth = 7
iter = 1396, queue = 2611, heur = -7.0, depth = 7
iter = 1397, queue = 2611, heur = -7.0, depth = 7
iter = 1398, queue = 2610, heur = -7.0, depth = 7
iter = 1399, queue = 2611, heur = -7.0, depth = 7
iter = 1400, queue = 2614, heur = -7.0, depth = 7
iter = 1401, queue = 2615, heur = -7.0, depth = 7
iter = 1402, queue = 2618, heur = -7.0, depth = 7
iter = 1403, queue = 2621, heur = -7.0, depth = 7
iter = 1404, queue = 2624, heur = -7.0, depth = 7
iter = 1405, queue = 2623, heur = -7.0, depth = 7
iter = 1406, queue = 2624, heur = -7.0, depth = 7
iter = 1407, queue = 2627, heur = -7.0, depth = 7
iter = 1408, queue = 2628, heur = -7.0, depth = 7
iter = 1409, queue = 2629, heur = -7.0, depth = 7
iter = 1410, queue = 2630, heur = -7.0, depth = 7
iter = 1411, queue = 2631, heur = -7.0, depth = 7
iter = 1412, queue = 2633, heur = -7.0, depth = 7
iter = 1413, queue = 2632, heur = -7.0, depth = 7
iter = 1414, queue = 2633, heur = -7.0, depth = 7
```

```
iter = 1415, queue = 2635, heur = -7.0, depth = 7
iter = 1416, queue = 2636, heur = -7.0, depth = 7
iter = 1417, queue = 2637, heur = -7.0, depth = 7
iter = 1418, queue = 2640, heur = -7.0, depth = 7
iter = 1419, queue = 2641, heur = -7.0, depth = 8
iter = 1420, queue = 2644, heur = -7.0, depth = 7
iter = 1421, queue = 2647, heur = -7.0, depth = 7
iter = 1422, queue = 2648, heur = -7.0, depth = 7
iter = 1423, queue = 2649, heur = -7.0, depth = 7
iter = 1424, queue = 2651, heur = -7.0, depth = 7
iter = 1425, queue = 2654, heur = -7.0, depth = 7
iter = 1426, queue = 2657, heur = -7.0, depth = 7
iter = 1427, queue = 2660, heur = -7.0, depth = 7
iter = 1428, queue = 2661, heur = -7.0, depth = 7
iter = 1429, queue = 2662, heur = -7.0, depth = 7
iter = 1430, queue = 2663, heur = -7.0, depth = 7
iter = 1431, queue = 2666, heur = -7.0, depth = 7
iter = 1432, queue = 2668, heur = -7.0, depth = 7
iter = 1433, queue = 2671, heur = -7.0, depth = 7
iter = 1434, queue = 2672, heur = -7.0, depth = 7
iter = 1435, queue = 2673, heur = -7.0, depth = 7
iter = 1436, queue = 2674, heur = -7.0, depth = 7
iter = 1437, queue = 2675, heur = -7.0, depth = 7
iter = 1438, queue = 2678, heur = -7.0, depth = 7
iter = 1439, queue = 2681, heur = -7.0, depth = 7
iter = 1440, queue = 2684, heur = -7.0, depth = 7
iter = 1441, queue = 2685, heur = -7.0, depth = 7
iter = 1442, queue = 2687, heur = -7.0, depth = 7
iter = 1443, queue = 2688, heur = -7.0, depth = 7
iter = 1444, queue = 2688, heur = -7.0, depth = 7
iter = 1445, queue = 2689, heur = -7.0, depth = 7
iter = 1446, queue = 2690, heur = -7.0, depth = 7
iter = 1447, queue = 2693, heur = -7.0, depth = 7
iter = 1448, queue = 2696, heur = -7.0, depth = 7
iter = 1449, queue = 2699, heur = -7.0, depth = 8
iter = 1450, queue = 2702, heur = -7.0, depth = 8
iter = 1451, queue = 2705, heur = -7.0, depth = 7
iter = 1452, queue = 2708, heur = -7.0, depth = 7
iter = 1453, queue = 2709, heur = -7.0, depth = 8
iter = 1454, queue = 2712, heur = -7.0, depth = 7
iter = 1455, queue = 2713, heur = -7.0, depth = 7
iter = 1456, queue = 2713, heur = -7.0, depth = 7
iter = 1457, queue = 2716, heur = -7.0, depth = 7
iter = 1458, queue = 2719, heur = -7.0, depth = 7
iter = 1459, queue = 2722, heur = -7.0, depth = 7
iter = 1460, queue = 2721, heur = -7.0, depth = 7
iter = 1461, queue = 2723, heur = -7.0, depth = 7
iter = 1462, queue = 2724, heur = -7.0, depth = 7
iter = 1463, queue = 2727, heur = -7.0, depth = 7
iter = 1464, queue = 2728, heur = -7.0, depth = 7
iter = 1465, queue = 2729, heur = -7.0, depth = 7
iter = 1466, queue = 2731, heur = -7.0, depth = 7
iter = 1467, queue = 2732, heur = -7.0, depth = 7
iter = 1468, queue = 2733, heur = -7.0, depth = 7
iter = 1469, queue = 2736, heur = -7.0, depth = 7
iter = 1470, queue = 2737, heur = -7.0, depth = 7
iter = 1471, queue = 2738, heur = -7.0, depth = 7
iter = 1472, queue = 2741, heur = -7.0, depth = 7
iter = 1473, queue = 2744, heur = -7.0, depth = 7
```

```
iter = 1474, queue = 2746, heur = -7.0, depth = 7
iter = 1475, queue = 2745, heur = -7.0, depth = 7
iter = 1476, queue = 2748, heur = -7.0, depth = 7
iter = 1477, queue = 2749, heur = -7.0, depth = 7
iter = 1478, queue = 2752, heur = -7.0, depth = 7
iter = 1479, queue = 2755, heur = -7.0, depth = 7
iter = 1480, queue = 2758, heur = -7.0, depth = 7
iter = 1481, queue = 2761, heur = -7.0, depth = 7
iter = 1482, queue = 2762, heur = -7.0, depth = 7
iter = 1483, queue = 2765, heur = -7.0, depth = 7
iter = 1484, queue = 2767, heur = -7.0, depth = 7
iter = 1485, queue = 2768, heur = -7.0, depth = 7
iter = 1486, queue = 2769, heur = -7.0, depth = 7
iter = 1487, queue = 2770, heur = -7.0, depth = 7
iter = 1488, queue = 2770, heur = -7.0, depth = 7
iter = 1489, queue = 2773, heur = -7.0, depth = 7
iter = 1490, queue = 2776, heur = -7.0, depth = 7
iter = 1491, queue = 2777, heur = -7.0, depth = 7
iter = 1492, queue = 2778, heur = -7.0, depth = 7
iter = 1493, queue = 2779, heur = -7.0, depth = 7
iter = 1494, queue = 2782, heur = -7.0, depth = 7
iter = 1495, queue = 2785, heur = -7.0, depth = 7
iter = 1496, queue = 2787, heur = -7.0, depth = 7
iter = 1497, queue = 2790, heur = -7.0, depth = 7
iter = 1498, queue = 2793, heur = -7.0, depth = 7
iter = 1499, queue = 2796, heur = -7.0, depth = 7
iter = 1500, queue = 2798, heur = -7.0, depth = 7
iter = 1501, queue = 2798, heur = -7.0, depth = 7
iter = 1502, queue = 2798, heur = -7.0, depth = 7
iter = 1503, queue = 2801, heur = -7.0, depth = 7
iter = 1504, queue = 2802, heur = -7.0, depth = 7
iter = 1505, queue = 2805, heur = -7.0, depth = 7
iter = 1506, queue = 2808, heur = -7.0, depth = 7
iter = 1507, queue = 2807, heur = -7.0, depth = 7
iter = 1508, queue = 2806, heur = -7.0, depth = 7
iter = 1509, queue = 2807, heur = -7.0, depth = 7
iter = 1510, queue = 2807, heur = -7.0, depth = 7
iter = 1511, queue = 2810, heur = -7.0, depth = 7
iter = 1512, queue = 2811, heur = -7.0, depth = 7
iter = 1513, queue = 2812, heur = -7.0, depth = 7
iter = 1514, queue = 2813, heur = -7.0, depth = 7
iter = 1515, queue = 2813, heur = -7.0, depth = 7
iter = 1516, queue = 2813, heur = -7.0, depth = 7
iter = 1517, queue = 2816, heur = -7.0, depth = 7
iter = 1518, queue = 2817, heur = -7.0, depth = 7
iter = 1519, queue = 2816, heur = -7.0, depth = 7
iter = 1520, queue = 2819, heur = -7.0, depth = 7
iter = 1521, queue = 2820, heur = -7.0, depth = 7
iter = 1522, queue = 2822, heur = -7.0, depth = 7
iter = 1523, queue = 2825, heur = -7.0, depth = 7
iter = 1524, queue = 2826, heur = -7.0, depth = 7
iter = 1525, queue = 2826, heur = -7.0, depth = 7
iter = 1526, queue = 2829, heur = -7.0, depth = 7
iter = 1527, queue = 2832, heur = -7.0, depth = 7
iter = 1528, queue = 2833, heur = -7.0, depth = 7
iter = 1529, queue = 2836, heur = -7.0, depth = 7
iter = 1530, queue = 2839, heur = -7.0, depth = 7
iter = 1531, queue = 2840, heur = -7.0, depth = 7
iter = 1532, queue = 2841, heur = -7.0, depth = 7
```

```
iter = 1533, queue = 2844, heur = -7.0, depth = 7
iter = 1534, queue = 2843, heur = -7.0, depth = 7
iter = 1535, queue = 2844, heur = -7.0, depth = 7
iter = 1536, queue = 2844, heur = -7.0, depth = 7
iter = 1537, queue = 2845, heur = -7.0, depth = 7
iter = 1538, queue = 2848, heur = -7.0, depth = 7
iter = 1539, queue = 2847, heur = -7.0, depth = 7
iter = 1540, queue = 2848, heur = -7.0, depth = 7
iter = 1541, queue = 2849, heur = -7.0, depth = 7
iter = 1542, queue = 2848, heur = -7.0, depth = 7
iter = 1543, queue = 2849, heur = -7.0, depth = 7
iter = 1544, queue = 2851, heur = -7.0, depth = 7
iter = 1545, queue = 2854, heur = -7.0, depth = 7
iter = 1546, queue = 2855, heur = -7.0, depth = 7
iter = 1547, queue = 2856, heur = -7.0, depth = 7
iter = 1548, queue = 2859, heur = -7.0, depth = 7
iter = 1549, queue = 2862, heur = -7.0, depth = 7
iter = 1550, queue = 2863, heur = -7.0, depth = 7
iter = 1551, queue = 2864, heur = -7.0, depth = 7
iter = 1552, queue = 2867, heur = -7.0, depth = 7
iter = 1553, queue = 2868, heur = -7.0, depth = 7
iter = 1554, queue = 2868, heur = -7.0, depth = 7
iter = 1555, queue = 2871, heur = -7.0, depth = 7
iter = 1556, queue = 2874, heur = -7.0, depth = 7
iter = 1557, queue = 2874, heur = -7.0, depth = 7
iter = 1558, queue = 2875, heur = -7.0, depth = 7
iter = 1559, queue = 2876, heur = -7.0, depth = 7
iter = 1560, queue = 2876, heur = -7.0, depth = 7
iter = 1561, queue = 2879, heur = -7.0, depth = 7
iter = 1562, queue = 2882, heur = -7.0, depth = 7
iter = 1563, queue = 2883, heur = -7.0, depth = 7
iter = 1564, queue = 2886, heur = -7.0, depth = 7
iter = 1565, queue = 2889, heur = -7.0, depth = 7
iter = 1566, queue = 2890, heur = -7.0, depth = 7
iter = 1567, queue = 2891, heur = -7.0, depth = 7
iter = 1568, queue = 2894, heur = -7.0, depth = 7
iter = 1569, queue = 2896, heur = -7.0, depth = 7
iter = 1570, queue = 2897, heur = -7.0, depth = 7
iter = 1571, queue = 2898, heur = -7.0, depth = 7
iter = 1572, queue = 2897, heur = -7.0, depth = 7
iter = 1573, queue = 2897, heur = -7.0, depth = 7
iter = 1574, queue = 2899, heur = -7.0, depth = 7
iter = 1575, queue = 2900, heur = -7.0, depth = 7
iter = 1576, queue = 2903, heur = -7.0, depth = 7
iter = 1577, queue = 2904, heur = -7.0, depth = 7
iter = 1578, queue = 2905, heur = -7.0, depth = 7
iter = 1579, queue = 2906, heur = -7.0, depth = 7
iter = 1580, queue = 2907, heur = -7.0, depth = 7
iter = 1581, queue = 2908, heur = -7.0, depth = 7
iter = 1582, queue = 2911, heur = -7.0, depth = 7
iter = 1583, queue = 2914, heur = -7.0, depth = 7
iter = 1584, queue = 2917, heur = -7.0, depth = 7
iter = 1585, queue = 2918, heur = -7.0, depth = 7
iter = 1586, queue = 2920, heur = -7.0, depth = 7
iter = 1587, queue = 2921, heur = -7.0, depth = 7
iter = 1588, queue = 2924, heur = -7.0, depth = 7
iter = 1589, queue = 2927, heur = -7.0, depth = 7
iter = 1590, queue = 2928, heur = -7.0, depth = 7
iter = 1591, queue = 2927, heur = -7.0, depth = 7
```

```
iter = 1592, queue = 2929, heur = -7.0, depth = 7
iter = 1593, queue = 2932, heur = -7.0, depth = 7
iter = 1594, queue = 2935, heur = -7.0, depth = 7
iter = 1595, queue = 2937, heur = -7.0, depth = 7
iter = 1596, queue = 2940, heur = -7.0, depth = 7
iter = 1597, queue = 2941, heur = -7.0, depth = 7
iter = 1598, queue = 2944, heur = -7.0, depth = 7
iter = 1599, queue = 2947, heur = -7.0, depth = 7
iter = 1600, queue = 2950, heur = -7.0, depth = 7
iter = 1601, queue = 2951, heur = -7.0, depth = 7
iter = 1602, queue = 2953, heur = -7.0, depth = 7
iter = 1603, queue = 2956, heur = -7.0, depth = 7
iter = 1604, queue = 2957, heur = -7.0, depth = 7
iter = 1605, queue = 2960, heur = -7.0, depth = 7
iter = 1606, queue = 2960, heur = -7.0, depth = 7
iter = 1607, queue = 2963, heur = -7.0, depth = 7
iter = 1608, queue = 2964, heur = -7.0, depth = 7
iter = 1609, queue = 2965, heur = -7.0, depth = 7
iter = 1610, queue = 2966, heur = -7.0, depth = 7
iter = 1611, queue = 2969, heur = -7.0, depth = 7
iter = 1612, queue = 2972, heur = -7.0, depth = 7
iter = 1613, queue = 2973, heur = -7.0, depth = 7
iter = 1614, queue = 2976, heur = -7.0, depth = 7
iter = 1615, queue = 2979, heur = -7.0, depth = 7
iter = 1616, queue = 2980, heur = -7.0, depth = 8
iter = 1617, queue = 2983, heur = -7.0, depth = 7
iter = 1618, queue = 2986, heur = -7.0, depth = 8
iter = 1619, queue = 2989, heur = -7.0, depth = 7
iter = 1620, queue = 2991, heur = -7.0, depth = 7
iter = 1621, queue = 2994, heur = -7.0, depth = 7
iter = 1622, queue = 2997, heur = -7.0, depth = 7
iter = 1623, queue = 3000, heur = -7.0, depth = 7
iter = 1624, queue = 3002, heur = -7.0, depth = 7
iter = 1625, queue = 3005, heur = -7.0, depth = 7
iter = 1626, queue = 3007, heur = -7.0, depth = 7
iter = 1627, queue = 3010, heur = -7.0, depth = 7
iter = 1628, queue = 3011, heur = -7.0, depth = 7
iter = 1629, queue = 3014, heur = -7.0, depth = 7
iter = 1630, queue = 3017, heur = -7.0, depth = 7
iter = 1631, queue = 3019, heur = -7.0, depth = 7
iter = 1632, queue = 3022, heur = -7.0, depth = 7
iter = 1633, queue = 3023, heur = -7.0, depth = 7
iter = 1634, queue = 3026, heur = -7.0, depth = 8
iter = 1635, queue = 3029, heur = -7.0, depth = 7
iter = 1636, queue = 3030, heur = -7.0, depth = 7
iter = 1637, queue = 3032, heur = -7.0, depth = 7
iter = 1638, queue = 3035, heur = -7.0, depth = 7
iter = 1639, queue = 3038, heur = -7.0, depth = 7
iter = 1640, queue = 3041, heur = -7.0, depth = 7
iter = 1641, queue = 3042, heur = -7.0, depth = 7
iter = 1642, queue = 3044, heur = -7.0, depth = 7
iter = 1643, queue = 3045, heur = -7.0, depth = 7
iter = 1644, queue = 3048, heur = -7.0, depth = 7
iter = 1645, queue = 3051, heur = -7.0, depth = 7
iter = 1646, queue = 3054, heur = -7.0, depth = 7
iter = 1647, queue = 3055, heur = -7.0, depth = 7
iter = 1648, queue = 3056, heur = -7.0, depth = 7
iter = 1649, queue = 3057, heur = -7.0, depth = 7
iter = 1650, queue = 3060, heur = -7.0, depth = 7
```

```
iter = 1651, queue = 3063, heur = -7.0, depth = 7
iter = 1652, queue = 3066, heur = -7.0, depth = 7
iter = 1653, queue = 3067, heur = -7.0, depth = 7
iter = 1654, queue = 3068, heur = -7.0, depth = 7
iter = 1655, queue = 3069, heur = -7.0, depth = 7
iter = 1656, queue = 3071, heur = -7.0, depth = 7
iter = 1657, queue = 3072, heur = -7.0, depth = 7
iter = 1658, queue = 3074, heur = -7.0, depth = 7
iter = 1659, queue = 3073, heur = -7.0, depth = 7
iter = 1660, queue = 3075, heur = -7.0, depth = 7
iter = 1661, queue = 3076, heur = -7.0, depth = 7
iter = 1662, queue = 3078, heur = -7.0, depth = 7
iter = 1663, queue = 3079, heur = -7.0, depth = 7
iter = 1664, queue = 3082, heur = -7.0, depth = 7
iter = 1665, queue = 3084, heur = -7.0, depth = 8
iter = 1666, queue = 3087, heur = -7.0, depth = 7
iter = 1667, queue = 3090, heur = -7.0, depth = 7
iter = 1668, queue = 3090, heur = -7.0, depth = 7
iter = 1669, queue = 3091, heur = -7.0, depth = 7
iter = 1670, queue = 3091, heur = -7.0, depth = 7
iter = 1671, queue = 3093, heur = -7.0, depth = 7
iter = 1672, queue = 3095, heur = -7.0, depth = 7
iter = 1673, queue = 3098, heur = -7.0, depth = 7
iter = 1674, queue = 3100, heur = -7.0, depth = 7
iter = 1675, queue = 3099, heur = -7.0, depth = 7
iter = 1676, queue = 3102, heur = -7.0, depth = 7
iter = 1677, queue = 3105, heur = -7.0, depth = 7
iter = 1678, queue = 3107, heur = -7.0, depth = 7
iter = 1679, queue = 3110, heur = -7.0, depth = 7
iter = 1680, queue = 3113, heur = -7.0, depth = 7
iter = 1681, queue = 3114, heur = -7.0, depth = 7
iter = 1682, queue = 3114, heur = -7.0, depth = 7
iter = 1683, queue = 3117, heur = -7.0, depth = 7
iter = 1684, queue = 3119, heur = -7.0, depth = 8
iter = 1685, queue = 3121, heur = -7.0, depth = 7
iter = 1686, queue = 3122, heur = -7.0, depth = 7
iter = 1687, queue = 3123, heur = -7.0, depth = 7
iter = 1688, queue = 3124, heur = -7.0, depth = 8
iter = 1689, queue = 3127, heur = -7.0, depth = 8
iter = 1690, queue = 3128, heur = -7.0, depth = 7
iter = 1691, queue = 3130, heur = -7.0, depth = 7
iter = 1692, queue = 3129, heur = -7.0, depth = 8
iter = 1693, queue = 3130, heur = -7.0, depth = 7
iter = 1694, queue = 3131, heur = -7.0, depth = 7
iter = 1695, queue = 3132, heur = -7.0, depth = 7
iter = 1696, queue = 3135, heur = -7.0, depth = 7
iter = 1697, queue = 3136, heur = -7.0, depth = 7
iter = 1698, queue = 3139, heur = -7.0, depth = 7
iter = 1699, queue = 3140, heur = -7.0, depth = 7
iter = 1700, queue = 3143, heur = -7.0, depth = 7
iter = 1701, queue = 3144, heur = -7.0, depth = 7
iter = 1702, queue = 3145, heur = -7.0, depth = 7
iter = 1703, queue = 3148, heur = -7.0, depth = 7
iter = 1704, queue = 3150, heur = -7.0, depth = 7
iter = 1705, queue = 3153, heur = -7.0, depth = 7
iter = 1706, queue = 3154, heur = -7.0, depth = 7
iter = 1707, queue = 3154, heur = -7.0, depth = 7
iter = 1708, queue = 3155, heur = -7.0, depth = 7
iter = 1709, queue = 3156, heur = -7.0, depth = 7
```

```
iter = 1710, queue = 3155, heur = -7.0, depth = 7
iter = 1711, queue = 3156, heur = -7.0, depth = 7
iter = 1712, queue = 3159, heur = -7.0, depth = 9
iter = 1713, queue = 3161, heur = -7.0, depth = 7
iter = 1714, queue = 3164, heur = -7.0, depth = 7
iter = 1715, queue = 3167, heur = -7.0, depth = 7
iter = 1716, queue = 3168, heur = -7.0, depth = 7
iter = 1717, queue = 3170, heur = -7.0, depth = 7
iter = 1718, queue = 3173, heur = -7.0, depth = 7
iter = 1719, queue = 3174, heur = -7.0, depth = 7
iter = 1720, queue = 3177, heur = -7.0, depth = 8
iter = 1721, queue = 3180, heur = -7.0, depth = 7
iter = 1722, queue = 3181, heur = -7.0, depth = 8
iter = 1723, queue = 3183, heur = -7.0, depth = 8
iter = 1724, queue = 3186, heur = -7.0, depth = 8
iter = 1725, queue = 3187, heur = -7.0, depth = 7
iter = 1726, queue = 3188, heur = -7.0, depth = 8
iter = 1727, queue = 3188, heur = -7.0, depth = 7
iter = 1728, queue = 3189, heur = -7.0, depth = 7
iter = 1729, queue = 3189, heur = -7.0, depth = 7
iter = 1730, queue = 3192, heur = -7.0, depth = 7
iter = 1731, queue = 3195, heur = -7.0, depth = 7
iter = 1732, queue = 3198, heur = -7.0, depth = 7
iter = 1733, queue = 3201, heur = -7.0, depth = 7
iter = 1734, queue = 3201, heur = -7.0, depth = 8
iter = 1735, queue = 3203, heur = -7.0, depth = 7
iter = 1736, queue = 3206, heur = -7.0, depth = 7
iter = 1737, queue = 3206, heur = -7.0, depth = 7
iter = 1738, queue = 3207, heur = -7.0, depth = 7
iter = 1739, queue = 3210, heur = -7.0, depth = 7
iter = 1740, queue = 3213, heur = -7.0, depth = 7
iter = 1741, queue = 3214, heur = -7.0, depth = 7
iter = 1742, queue = 3217, heur = -7.0, depth = 7
iter = 1743, queue = 3220, heur = -7.0, depth = 7
iter = 1744, queue = 3222, heur = -7.0, depth = 7
iter = 1745, queue = 3224, heur = -7.0, depth = 7
iter = 1746, queue = 3227, heur = -7.0, depth = 8
iter = 1747, queue = 3229, heur = -7.0, depth = 9
iter = 1748, queue = 3230, heur = -7.0, depth = 7
iter = 1749, queue = 3233, heur = -7.0, depth = 7
iter = 1750, queue = 3235, heur = -7.0, depth = 7
iter = 1751, queue = 3237, heur = -7.0, depth = 7
iter = 1752, queue = 3238, heur = -7.0, depth = 7
iter = 1753, queue = 3239, heur = -7.0, depth = 7
iter = 1754, queue = 3240, heur = -7.0, depth = 9
iter = 1755, queue = 3243, heur = -7.0, depth = 7
iter = 1756, queue = 3244, heur = -7.0, depth = 7
iter = 1757, queue = 3247, heur = -7.0, depth = 7
iter = 1758, queue = 3248, heur = -7.0, depth = 7
iter = 1759, queue = 3251, heur = -7.0, depth = 7
iter = 1760, queue = 3252, heur = -7.0, depth = 7
iter = 1761, queue = 3253, heur = -7.0, depth = 7
iter = 1762, queue = 3256, heur = -7.0, depth = 7
iter = 1763, queue = 3256, heur = -7.0, depth = 7
iter = 1764, queue = 3257, heur = -7.0, depth = 7
iter = 1765, queue = 3258, heur = -7.0, depth = 7
iter = 1766, queue = 3260, heur = -7.0, depth = 7
iter = 1767, queue = 3261, heur = -7.0, depth = 7
iter = 1768, queue = 3261, heur = -7.0, depth = 7
```

```
iter = 1769, queue = 3262, heur = -7.0, depth = 7
iter = 1770, queue = 3263, heur = -7.0, depth = 7
iter = 1771, queue = 3264, heur = -7.0, depth = 7
iter = 1772, queue = 3263, heur = -7.0, depth = 7
iter = 1773, queue = 3264, heur = -7.0, depth = 7
iter = 1774, queue = 3263, heur = -7.0, depth = 7
iter = 1775, queue = 3266, heur = -7.0, depth = 7
iter = 1776, queue = 3269, heur = -7.0, depth = 7
iter = 1777, queue = 3268, heur = -7.0, depth = 7
iter = 1778, queue = 3271, heur = -7.0, depth = 7
iter = 1779, queue = 3271, heur = -7.0, depth = 7
iter = 1780, queue = 3273, heur = -7.0, depth = 7
iter = 1781, queue = 3274, heur = -7.0, depth = 7
iter = 1782, queue = 3275, heur = -7.0, depth = 7
iter = 1783, queue = 3276, heur = -7.0, depth = 7
iter = 1784, queue = 3276, heur = -7.0, depth = 7
iter = 1785, queue = 3277, heur = -7.0, depth = 8
iter = 1786, queue = 3280, heur = -7.0, depth = 8
iter = 1787, queue = 3281, heur = -7.0, depth = 7
iter = 1788, queue = 3284, heur = -7.0, depth = 7
iter = 1789, queue = 3285, heur = -7.0, depth = 8
iter = 1790, queue = 3287, heur = -7.0, depth = 7
iter = 1791, queue = 3288, heur = -7.0, depth = 7
iter = 1792, queue = 3290, heur = -7.0, depth = 8
iter = 1793, queue = 3291, heur = -7.0, depth = 7
iter = 1794, queue = 3293, heur = -7.0, depth = 8
iter = 1795, queue = 3296, heur = -7.0, depth = 8
iter = 1796, queue = 3299, heur = -7.0, depth = 7
iter = 1797, queue = 3299, heur = -7.0, depth = 8
iter = 1798, queue = 3302, heur = -7.0, depth = 7
iter = 1799, queue = 3303, heur = -7.0, depth = 7
iter = 1800, queue = 3303, heur = -7.0, depth = 7
iter = 1801, queue = 3303, heur = -7.0, depth = 7
iter = 1802, queue = 3306, heur = -7.0, depth = 7
iter = 1803, queue = 3308, heur = -7.0, depth = 7
iter = 1804, queue = 3311, heur = -7.0, depth = 7
iter = 1805, queue = 3312, heur = -7.0, depth = 7
iter = 1806, queue = 3315, heur = -7.0, depth = 7
iter = 1807, queue = 3318, heur = -7.0, depth = 8
iter = 1808, queue = 3321, heur = -7.0, depth = 7
iter = 1809, queue = 3323, heur = -7.0, depth = 7
iter = 1810, queue = 3322, heur = -7.0, depth = 7
iter = 1811, queue = 3323, heur = -7.0, depth = 7
iter = 1812, queue = 3324, heur = -7.0, depth = 7
iter = 1813, queue = 3325, heur = -7.0, depth = 7
iter = 1814, queue = 3326, heur = -7.0, depth = 7
iter = 1815, queue = 3329, heur = -7.0, depth = 7
iter = 1816, queue = 3332, heur = -7.0, depth = 8
iter = 1817, queue = 3334, heur = -7.0, depth = 7
iter = 1818, queue = 3337, heur = -7.0, depth = 7
iter = 1819, queue = 3340, heur = -7.0, depth = 8
iter = 1820, queue = 3341, heur = -7.0, depth = 7
iter = 1821, queue = 3344, heur = -7.0, depth = 7
iter = 1822, queue = 3347, heur = -7.0, depth = 7
iter = 1823, queue = 3350, heur = -7.0, depth = 7
iter = 1824, queue = 3350, heur = -7.0, depth = 7
iter = 1825, queue = 3353, heur = -7.0, depth = 7
iter = 1826, queue = 3356, heur = -7.0, depth = 7
iter = 1827, queue = 3356, heur = -7.0, depth = 7
```

```
iter = 1828, queue = 3359, heur = -7.0, depth = 7
iter = 1829, queue = 3362, heur = -7.0, depth = 7
iter = 1830, queue = 3365, heur = -7.0, depth = 7
iter = 1831, queue = 3368, heur = -7.0, depth = 7
iter = 1832, queue = 3371, heur = -7.0, depth = 7
iter = 1833, queue = 3374, heur = -7.0, depth = 7
iter = 1834, queue = 3377, heur = -7.0, depth = 7
iter = 1835, queue = 3378, heur = -7.0, depth = 8
iter = 1836, queue = 3379, heur = -7.0, depth = 7
iter = 1837, queue = 3382, heur = -7.0, depth = 7
iter = 1838, queue = 3383, heur = -7.0, depth = 8
iter = 1839, queue = 3386, heur = -7.0, depth = 7
iter = 1840, queue = 3389, heur = -7.0, depth = 7
iter = 1841, queue = 3389, heur = -7.0, depth = 7
iter = 1842, queue = 3390, heur = -7.0, depth = 7
iter = 1843, queue = 3393, heur = -7.0, depth = 7
iter = 1844, queue = 3395, heur = -7.0, depth = 7
iter = 1845, queue = 3396, heur = -7.0, depth = 8
iter = 1846, queue = 3399, heur = -7.0, depth = 7
iter = 1847, queue = 3400, heur = -7.0, depth = 7
iter = 1848, queue = 3400, heur = -7.0, depth = 8
iter = 1849, queue = 3401, heur = -7.0, depth = 8
iter = 1850, queue = 3402, heur = -7.0, depth = 7
iter = 1851, queue = 3404, heur = -7.0, depth = 7
iter = 1852, queue = 3407, heur = -7.0, depth = 7
iter = 1853, queue = 3408, heur = -7.0, depth = 7
iter = 1854, queue = 3408, heur = -7.0, depth = 7
iter = 1855, queue = 3411, heur = -7.0, depth = 7
iter = 1856, queue = 3412, heur = -7.0, depth = 7
iter = 1857, queue = 3413, heur = -7.0, depth = 7
iter = 1858, queue = 3414, heur = -7.0, depth = 7
iter = 1859, queue = 3417, heur = -7.0, depth = 7
iter = 1860, queue = 3420, heur = -7.0, depth = 7
iter = 1861, queue = 3422, heur = -7.0, depth = 7
iter = 1862, queue = 3425, heur = -7.0, depth = 7
iter = 1863, queue = 3428, heur = -7.0, depth = 7
iter = 1864, queue = 3429, heur = -7.0, depth = 7
iter = 1865, queue = 3430, heur = -7.0, depth = 7
iter = 1866, queue = 3431, heur = -7.0, depth = 8
iter = 1867, queue = 3434, heur = -7.0, depth = 8
iter = 1868, queue = 3437, heur = -7.0, depth = 8
iter = 1869, queue = 3440, heur = -7.0, depth = 7
iter = 1870, queue = 3441, heur = -7.0, depth = 8
iter = 1871, queue = 3442, heur = -7.0, depth = 7
iter = 1872, queue = 3445, heur = -7.0, depth = 8
iter = 1873, queue = 3448, heur = -7.0, depth = 7
iter = 1874, queue = 3449, heur = -7.0, depth = 7
iter = 1875, queue = 3449, heur = -7.0, depth = 7
iter = 1876, queue = 3450, heur = -7.0, depth = 8
iter = 1877, queue = 3453, heur = -7.0, depth = 7
iter = 1878, queue = 3456, heur = -7.0, depth = 7
iter = 1879, queue = 3457, heur = -7.0, depth = 7
iter = 1880, queue = 3460, heur = -7.0, depth = 7
iter = 1881, queue = 3463, heur = -7.0, depth = 7
iter = 1882, queue = 3463, heur = -7.0, depth = 7
iter = 1883, queue = 3466, heur = -7.0, depth = 7
iter = 1884, queue = 3469, heur = -7.0, depth = 7
iter = 1885, queue = 3472, heur = -7.0, depth = 7
iter = 1886, queue = 3475, heur = -7.0, depth = 7
```

```
iter = 1887, queue = 3477, heur = -7.0, depth = 7
iter = 1888, queue = 3480, heur = -7.0, depth = 7
iter = 1889, queue = 3483, heur = -7.0, depth = 8
iter = 1890, queue = 3484, heur = -7.0, depth = 7
iter = 1891, queue = 3486, heur = -7.0, depth = 7
iter = 1892, queue = 3489, heur = -7.0, depth = 7
iter = 1893, queue = 3492, heur = -7.0, depth = 7
iter = 1894, queue = 3491, heur = -7.0, depth = 7
iter = 1895, queue = 3492, heur = -7.0, depth = 7
iter = 1896, queue = 3493, heur = -7.0, depth = 7
iter = 1897, queue = 3495, heur = -7.0, depth = 7
iter = 1898, queue = 3495, heur = -7.0, depth = 7
iter = 1899, queue = 3498, heur = -7.0, depth = 7
iter = 1900, queue = 3501, heur = -7.0, depth = 7
iter = 1901, queue = 3503, heur = -7.0, depth = 7
iter = 1902, queue = 3505, heur = -7.0, depth = 7
iter = 1903, queue = 3506, heur = -7.0, depth = 8
iter = 1904, queue = 3507, heur = -7.0, depth = 7
iter = 1905, queue = 3506, heur = -7.0, depth = 7
iter = 1906, queue = 3507, heur = -7.0, depth = 7
iter = 1907, queue = 3507, heur = -7.0, depth = 7
iter = 1908, queue = 3510, heur = -7.0, depth = 7
iter = 1909, queue = 3513, heur = -7.0, depth = 7
iter = 1910, queue = 3514, heur = -7.0, depth = 7
iter = 1911, queue = 3515, heur = -7.0, depth = 7
iter = 1912, queue = 3516, heur = -7.0, depth = 7
iter = 1913, queue = 3519, heur = -7.0, depth = 7
iter = 1914, queue = 3522, heur = -7.0, depth = 7
iter = 1915, queue = 3524, heur = -7.0, depth = 7
iter = 1916, queue = 3525, heur = -7.0, depth = 7
iter = 1917, queue = 3528, heur = -7.0, depth = 7
iter = 1918, queue = 3531, heur = -7.0, depth = 7
iter = 1919, queue = 3534, heur = -7.0, depth = 8
iter = 1920, queue = 3535, heur = -7.0, depth = 7
iter = 1921, queue = 3535, heur = -7.0, depth = 7
iter = 1922, queue = 3536, heur = -7.0, depth = 7
iter = 1923, queue = 3539, heur = -7.0, depth = 7
iter = 1924, queue = 3542, heur = -7.0, depth = 7
iter = 1925, queue = 3542, heur = -7.0, depth = 7
iter = 1926, queue = 3545, heur = -7.0, depth = 7
iter = 1927, queue = 3548, heur = -7.0, depth = 8
iter = 1928, queue = 3550, heur = -7.0, depth = 7
iter = 1929, queue = 3553, heur = -7.0, depth = 7
iter = 1930, queue = 3554, heur = -7.0, depth = 7
iter = 1931, queue = 3555, heur = -7.0, depth = 8
iter = 1932, queue = 3557, heur = -7.0, depth = 7
iter = 1933, queue = 3556, heur = -7.0, depth = 7
iter = 1934, queue = 3558, heur = -7.0, depth = 7
iter = 1935, queue = 3557, heur = -7.0, depth = 8
iter = 1936, queue = 3558, heur = -7.0, depth = 7
iter = 1937, queue = 3559, heur = -7.0, depth = 8
iter = 1938, queue = 3562, heur = -7.0, depth = 8
iter = 1939, queue = 3564, heur = -7.0, depth = 7
iter = 1940, queue = 3567, heur = -7.0, depth = 7
iter = 1941, queue = 3569, heur = -7.0, depth = 7
iter = 1942, queue = 3570, heur = -7.0, depth = 7
iter = 1943, queue = 3573, heur = -7.0, depth = 7
iter = 1944, queue = 3574, heur = -7.0, depth = 7
iter = 1945, queue = 3575, heur = -7.0, depth = 7
```

```
iter = 1946, queue = 3577, heur = -7.0, depth = 7
iter = 1947, queue = 3580, heur = -7.0, depth = 7
iter = 1948, queue = 3581, heur = -7.0, depth = 7
iter = 1949, queue = 3582, heur = -7.0, depth = 7
iter = 1950, queue = 3583, heur = -7.0, depth = 7
iter = 1951, queue = 3584, heur = -7.0, depth = 8
iter = 1952, queue = 3585, heur = -7.0, depth = 7
iter = 1953, queue = 3586, heur = -7.0, depth = 7
iter = 1954, queue = 3587, heur = -7.0, depth = 7
iter = 1955, queue = 3590, heur = -7.0, depth = 7
iter = 1956, queue = 3591, heur = -7.0, depth = 8
iter = 1957, queue = 3594, heur = -7.0, depth = 7
iter = 1958, queue = 3595, heur = -7.0, depth = 7
iter = 1959, queue = 3596, heur = -7.0, depth = 7
iter = 1960, queue = 3599, heur = -7.0, depth = 7
iter = 1961, queue = 3602, heur = -7.0, depth = 7
iter = 1962, queue = 3605, heur = -7.0, depth = 7
iter = 1963, queue = 3608, heur = -7.0, depth = 7
iter = 1964, queue = 3607, heur = -7.0, depth = 9
iter = 1965, queue = 3608, heur = -7.0, depth = 9
iter = 1966, queue = 3611, heur = -7.0, depth = 7
iter = 1967, queue = 3613, heur = -7.0, depth = 7
iter = 1968, queue = 3615, heur = -7.0, depth = 7
iter = 1969, queue = 3615, heur = -7.0, depth = 7
iter = 1970, queue = 3616, heur = -7.0, depth = 7
iter = 1971, queue = 3619, heur = -7.0, depth = 7
iter = 1972, queue = 3622, heur = -7.0, depth = 8
iter = 1973, queue = 3625, heur = -7.0, depth = 7
iter = 1974, queue = 3625, heur = -7.0, depth = 7
iter = 1975, queue = 3627, heur = -7.0, depth = 7
iter = 1976, queue = 3628, heur = -7.0, depth = 7
iter = 1977, queue = 3631, heur = -7.0, depth = 7
iter = 1978, queue = 3633, heur = -7.0, depth = 7
iter = 1979, queue = 3634, heur = -7.0, depth = 7
iter = 1980, queue = 3636, heur = -7.0, depth = 7
iter = 1981, queue = 3637, heur = -7.0, depth = 7
iter = 1982, queue = 3640, heur = -7.0, depth = 7
iter = 1983, queue = 3639, heur = -7.0, depth = 7
iter = 1984, queue = 3640, heur = -7.0, depth = 7
iter = 1985, queue = 3641, heur = -7.0, depth = 7
iter = 1986, queue = 3642, heur = -7.0, depth = 7
iter = 1987, queue = 3643, heur = -7.0, depth = 7
iter = 1988, queue = 3644, heur = -7.0, depth = 7
iter = 1989, queue = 3647, heur = -7.0, depth = 7
iter = 1990, queue = 3650, heur = -7.0, depth = 7
iter = 1991, queue = 3652, heur = -7.0, depth = 7
iter = 1992, queue = 3652, heur = -7.0, depth = 7
iter = 1993, queue = 3655, heur = -7.0, depth = 8
iter = 1994, queue = 3658, heur = -7.0, depth = 7
iter = 1995, queue = 3659, heur = -7.0, depth = 8
iter = 1996, queue = 3662, heur = -7.0, depth = 7
iter = 1997, queue = 3665, heur = -7.0, depth = 7
iter = 1998, queue = 3668, heur = -7.0, depth = 8
iter = 1999, queue = 3669, heur = -7.0, depth = 7
iter = 2000, queue = 3668, heur = -7.0, depth = 7
iter = 2001, queue = 3671, heur = -7.0, depth = 7
iter = 2002, queue = 3674, heur = -7.0, depth = 7
iter = 2003, queue = 3675, heur = -7.0, depth = 7
iter = 2004, queue = 3678, heur = -7.0, depth = 7
```

```
iter = 2005, queue = 3681, heur = -7.0, depth = 7
iter = 2006, queue = 3684, heur = -7.0, depth = 7
iter = 2007, queue = 3687, heur = -7.0, depth = 7
iter = 2008, queue = 3690, heur = -7.0, depth = 7
iter = 2009, queue = 3693, heur = -7.0, depth = 7
iter = 2010, queue = 3696, heur = -7.0, depth = 7
iter = 2011, queue = 3698, heur = -7.0, depth = 7
iter = 2012, queue = 3699, heur = -7.0, depth = 7
iter = 2013, queue = 3702, heur = -7.0, depth = 7
iter = 2014, queue = 3705, heur = -7.0, depth = 7
iter = 2015, queue = 3708, heur = -7.0, depth = 7
iter = 2016, queue = 3711, heur = -7.0, depth = 7
iter = 2017, queue = 3712, heur = -7.0, depth = 7
iter = 2018, queue = 3713, heur = -7.0, depth = 7
iter = 2019, queue = 3715, heur = -7.0, depth = 7
iter = 2020, queue = 3716, heur = -7.0, depth = 7
iter = 2021, queue = 3718, heur = -7.0, depth = 7
iter = 2022, queue = 3719, heur = -7.0, depth = 7
iter = 2023, queue = 3718, heur = -7.0, depth = 7
iter = 2024, queue = 3718, heur = -7.0, depth = 7
iter = 2025, queue = 3721, heur = -7.0, depth = 7
iter = 2026, queue = 3723, heur = -7.0, depth = 7
iter = 2027, queue = 3723, heur = -7.0, depth = 7
iter = 2028, queue = 3724, heur = -7.0, depth = 7
iter = 2029, queue = 3727, heur = -7.0, depth = 7
iter = 2030, queue = 3726, heur = -7.0, depth = 7
iter = 2031, queue = 3729, heur = -7.0, depth = 7
iter = 2032, queue = 3732, heur = -7.0, depth = 7
iter = 2033, queue = 3731, heur = -7.0, depth = 7
iter = 2034, queue = 3734, heur = -7.0, depth = 8
iter = 2035, queue = 3735, heur = -7.0, depth = 7
iter = 2036, queue = 3738, heur = -7.0, depth = 8
iter = 2037, queue = 3741, heur = -7.0, depth = 8
iter = 2038, queue = 3744, heur = -7.0, depth = 7
iter = 2039, queue = 3747, heur = -7.0, depth = 7
iter = 2040, queue = 3750, heur = -7.0, depth = 7
iter = 2041, queue = 3751, heur = -7.0, depth = 7
iter = 2042, queue = 3754, heur = -7.0, depth = 7
iter = 2043, queue = 3755, heur = -7.0, depth = 7
iter = 2044, queue = 3758, heur = -7.0, depth = 7
iter = 2045, queue = 3761, heur = -7.0, depth = 7
iter = 2046, queue = 3763, heur = -7.0, depth = 7
iter = 2047, queue = 3766, heur = -7.0, depth = 7
iter = 2048, queue = 3767, heur = -7.0, depth = 7
iter = 2049, queue = 3768, heur = -7.0, depth = 7
iter = 2050, queue = 3771, heur = -7.0, depth = 9
iter = 2051, queue = 3771, heur = -7.0, depth = 7
iter = 2052, queue = 3773, heur = -7.0, depth = 7
iter = 2053, queue = 3776, heur = -7.0, depth = 7
iter = 2054, queue = 3779, heur = -7.0, depth = 7
iter = 2055, queue = 3781, heur = -7.0, depth = 7
iter = 2056, queue = 3784, heur = -7.0, depth = 8
iter = 2057, queue = 3787, heur = -7.0, depth = 7
iter = 2058, queue = 3790, heur = -7.0, depth = 7
iter = 2059, queue = 3791, heur = -7.0, depth = 7
iter = 2060, queue = 3792, heur = -7.0, depth = 7
iter = 2061, queue = 3793, heur = -7.0, depth = 7
iter = 2062, queue = 3793, heur = -7.0, depth = 7
iter = 2063, queue = 3795, heur = -7.0, depth = 7
```

```
iter = 2064, queue = 3796, heur = -7.0, depth = 7
iter = 2065, queue = 3796, heur = -7.0, depth = 7
iter = 2066, queue = 3796, heur = -7.0, depth = 8
iter = 2067, queue = 3797, heur = -7.0, depth = 7
iter = 2068, queue = 3799, heur = -7.0, depth = 7
iter = 2069, queue = 3800, heur = -7.0, depth = 7
iter = 2070, queue = 3802, heur = -7.0, depth = 7
iter = 2071, queue = 3803, heur = -7.0, depth = 7
iter = 2072, queue = 3804, heur = -7.0, depth = 8
iter = 2073, queue = 3806, heur = -7.0, depth = 7
iter = 2074, queue = 3808, heur = -7.0, depth = 8
iter = 2075, queue = 3811, heur = -7.0, depth = 7
iter = 2076, queue = 3812, heur = -7.0, depth = 8
iter = 2077, queue = 3813, heur = -7.0, depth = 8
iter = 2078, queue = 3814, heur = -7.0, depth = 7
iter = 2079, queue = 3817, heur = -7.0, depth = 8
iter = 2080, queue = 3818, heur = -7.0, depth = 7
iter = 2081, queue = 3819, heur = -7.0, depth = 7
iter = 2082, queue = 3822, heur = -7.0, depth = 7
iter = 2083, queue = 3823, heur = -7.0, depth = 7
iter = 2084, queue = 3823, heur = -7.0, depth = 7
iter = 2085, queue = 3826, heur = -7.0, depth = 7
iter = 2086, queue = 3829, heur = -7.0, depth = 7
iter = 2087, queue = 3831, heur = -7.0, depth = 7
iter = 2088, queue = 3834, heur = -7.0, depth = 7
iter = 2089, queue = 3836, heur = -7.0, depth = 7
iter = 2090, queue = 3837, heur = -7.0, depth = 7
iter = 2091, queue = 3840, heur = -7.0, depth = 7
iter = 2092, queue = 3841, heur = -7.0, depth = 7
iter = 2093, queue = 3844, heur = -7.0, depth = 7
iter = 2094, queue = 3847, heur = -7.0, depth = 7
iter = 2095, queue = 3848, heur = -7.0, depth = 7
iter = 2096, queue = 3851, heur = -7.0, depth = 7
iter = 2097, queue = 3854, heur = -7.0, depth = 7
iter = 2098, queue = 3853, heur = -7.0, depth = 7
iter = 2099, queue = 3854, heur = -7.0, depth = 7
iter = 2100, queue = 3857, heur = -7.0, depth = 7
iter = 2101, queue = 3860, heur = -7.0, depth = 7
iter = 2102, queue = 3863, heur = -7.0, depth = 7
iter = 2103, queue = 3864, heur = -7.0, depth = 7
iter = 2104, queue = 3867, heur = -7.0, depth = 7
iter = 2105, queue = 3868, heur = -7.0, depth = 7
iter = 2106, queue = 3867, heur = -7.0, depth = 7
iter = 2107, queue = 3867, heur = -7.0, depth = 7
iter = 2108, queue = 3868, heur = -7.0, depth = 7
iter = 2109, queue = 3869, heur = -7.0, depth = 7
iter = 2110, queue = 3872, heur = -7.0, depth = 7
iter = 2111, queue = 3875, heur = -7.0, depth = 7
iter = 2112, queue = 3876, heur = -7.0, depth = 7
iter = 2113, queue = 3877, heur = -7.0, depth = 7
iter = 2114, queue = 3876, heur = -7.0, depth = 7
iter = 2115, queue = 3875, heur = -7.0, depth = 8
iter = 2116, queue = 3876, heur = -7.0, depth = 8
iter = 2117, queue = 3878, heur = -7.0, depth = 8
iter = 2118, queue = 3880, heur = -7.0, depth = 7
iter = 2119, queue = 3883, heur = -7.0, depth = 7
iter = 2120, queue = 3886, heur = -7.0, depth = 7
iter = 2121, queue = 3887, heur = -7.0, depth = 7
iter = 2122, queue = 3889, heur = -7.0, depth = 7
```

```
iter = 2123, queue = 3892, heur = -7.0, depth = 7
iter = 2124, queue = 3895, heur = -7.0, depth = 7
iter = 2125, queue = 3897, heur = -7.0, depth = 10
iter = 2126, queue = 3900, heur = -7.0, depth = 9
iter = 2127, queue = 3901, heur = -7.0, depth = 7
iter = 2128, queue = 3904, heur = -7.0, depth = 7
iter = 2129, queue = 3906, heur = -7.0, depth = 7
iter = 2130, queue = 3906, heur = -7.0, depth = 7
iter = 2131, queue = 3909, heur = -7.0, depth = 7
iter = 2132, queue = 3912, heur = -7.0, depth = 11
iter = 2133, queue = 3915, heur = -7.0, depth = 8
iter = 2134, queue = 3918, heur = -7.0, depth = 11
iter = 2135, queue = 3919, heur = -7.0, depth = 11
iter = 2136, queue = 3920, heur = -7.0, depth = 7
iter = 2137, queue = 3922, heur = -7.0, depth = 7
iter = 2138, queue = 3923, heur = -7.0, depth = 8
iter = 2139, queue = 3926, heur = -7.0, depth = 8
iter = 2140, queue = 3929, heur = -7.0, depth = 7
iter = 2141, queue = 3929, heur = -7.0, depth = 8
iter = 2142, queue = 3932, heur = -7.0, depth = 7
iter = 2143, queue = 3935, heur = -7.0, depth = 7
iter = 2144, queue = 3937, heur = -7.0, depth = 7
iter = 2145, queue = 3936, heur = -7.0, depth = 7
iter = 2146, queue = 3937, heur = -7.0, depth = 7
iter = 2147, queue = 3940, heur = -7.0, depth = 7
iter = 2148, queue = 3942, heur = -7.0, depth = 7
iter = 2149, queue = 3943, heur = -7.0, depth = 8
iter = 2150, queue = 3945, heur = -7.0, depth = 8
iter = 2151, queue = 3946, heur = -7.0, depth = 7
iter = 2152, queue = 3948, heur = -7.0, depth = 7
iter = 2153, queue = 3951, heur = -7.0, depth = 8
iter = 2154, queue = 3952, heur = -7.0, depth = 8
iter = 2155, queue = 3953, heur = -7.0, depth = 7
iter = 2156, queue = 3954, heur = -7.0, depth = 8
iter = 2157, queue = 3956, heur = -7.0, depth = 7
iter = 2158, queue = 3957, heur = -7.0, depth = 7
iter = 2159, queue = 3958, heur = -7.0, depth = 7
iter = 2160, queue = 3959, heur = -7.0, depth = 10
iter = 2161, queue = 3962, heur = -7.0, depth = 7
iter = 2162, queue = 3962, heur = -7.0, depth = 7
iter = 2163, queue = 3963, heur = -7.0, depth = 7
iter = 2164, queue = 3966, heur = -7.0, depth = 7
iter = 2165, queue = 3968, heur = -7.0, depth = 7
iter = 2166, queue = 3969, heur = -7.0, depth = 7
iter = 2167, queue = 3972, heur = -7.0, depth = 7
iter = 2168, queue = 3973, heur = -7.0, depth = 7
iter = 2169, queue = 3974, heur = -7.0, depth = 7
iter = 2170, queue = 3977, heur = -7.0, depth = 7
iter = 2171, queue = 3980, heur = -7.0, depth = 7
iter = 2172, queue = 3983, heur = -7.0, depth = 7
iter = 2173, queue = 3984, heur = -7.0, depth = 7
iter = 2174, queue = 3984, heur = -7.0, depth = 7
iter = 2175, queue = 3985, heur = -7.0, depth = 8
iter = 2176, queue = 3988, heur = -7.0, depth = 8
iter = 2177, queue = 3991, heur = -7.0, depth = 7
iter = 2178, queue = 3993, heur = -7.0, depth = 7
iter = 2179, queue = 3994, heur = -7.0, depth = 7
iter = 2180, queue = 3997, heur = -7.0, depth = 7
iter = 2181, queue = 3998, heur = -7.0, depth = 7
```

```
iter = 2182, queue = 4001, heur = -7.0, depth = 9
iter = 2183, queue = 4004, heur = -7.0, depth = 9
iter = 2184, queue = 4007, heur = -7.0, depth = 7
iter = 2185, queue = 4008, heur = -7.0, depth = 7
iter = 2186, queue = 4011, heur = -7.0, depth = 7
iter = 2187, queue = 4014, heur = -7.0, depth = 7
iter = 2188, queue = 4015, heur = -7.0, depth = 7
iter = 2189, queue = 4016, heur = -7.0, depth = 7
iter = 2190, queue = 4019, heur = -7.0, depth = 8
iter = 2191, queue = 4022, heur = -7.0, depth = 7
iter = 2192, queue = 4025, heur = -7.0, depth = 7
iter = 2193, queue = 4026, heur = -7.0, depth = 7
iter = 2194, queue = 4028, heur = -7.0, depth = 7
iter = 2195, queue = 4031, heur = -7.0, depth = 7
iter = 2196, queue = 4030, heur = -7.0, depth = 7
iter = 2197, queue = 4033, heur = -7.0, depth = 7
iter = 2198, queue = 4034, heur = -7.0, depth = 7
iter = 2199, queue = 4033, heur = -7.0, depth = 7
iter = 2200, queue = 4034, heur = -7.0, depth = 7
iter = 2201, queue = 4035, heur = -7.0, depth = 8
iter = 2202, queue = 4036, heur = -7.0, depth = 7
iter = 2203, queue = 4039, heur = -7.0, depth = 7
iter = 2204, queue = 4040, heur = -7.0, depth = 8
iter = 2205, queue = 4043, heur = -7.0, depth = 7
iter = 2206, queue = 4042, heur = -7.0, depth = 7
iter = 2207, queue = 4045, heur = -7.0, depth = 7
iter = 2208, queue = 4047, heur = -7.0, depth = 8
iter = 2209, queue = 4050, heur = -7.0, depth = 7
iter = 2210, queue = 4051, heur = -7.0, depth = 7
iter = 2211, queue = 4050, heur = -7.0, depth = 7
iter = 2212, queue = 4051, heur = -7.0, depth = 8
iter = 2213, queue = 4052, heur = -7.0, depth = 8
iter = 2214, queue = 4054, heur = -7.0, depth = 7
iter = 2215, queue = 4055, heur = -7.0, depth = 7
iter = 2216, queue = 4056, heur = -7.0, depth = 7
iter = 2217, queue = 4059, heur = -7.0, depth = 7
iter = 2218, queue = 4058, heur = -7.0, depth = 7
iter = 2219, queue = 4061, heur = -7.0, depth = 7
iter = 2220, queue = 4064, heur = -7.0, depth = 7
iter = 2221, queue = 4063, heur = -7.0, depth = 7
iter = 2222, queue = 4064, heur = -7.0, depth = 7
iter = 2223, queue = 4067, heur = -7.0, depth = 7
iter = 2224, queue = 4069, heur = -7.0, depth = 7
iter = 2225, queue = 4070, heur = -7.0, depth = 7
iter = 2226, queue = 4071, heur = -7.0, depth = 7
iter = 2227, queue = 4072, heur = -7.0, depth = 7
iter = 2228, queue = 4075, heur = -7.0, depth = 7
iter = 2229, queue = 4078, heur = -7.0, depth = 7
iter = 2230, queue = 4078, heur = -7.0, depth = 7
iter = 2231, queue = 4079, heur = -7.0, depth = 8
iter = 2232, queue = 4079, heur = -7.0, depth = 8
iter = 2233, queue = 4082, heur = -7.0, depth = 7
iter = 2234, queue = 4083, heur = -7.0, depth = 7
iter = 2235, queue = 4086, heur = -7.0, depth = 7
iter = 2236, queue = 4089, heur = -7.0, depth = 7
iter = 2237, queue = 4088, heur = -7.0, depth = 7
iter = 2238, queue = 4091, heur = -7.0, depth = 7
iter = 2239, queue = 4092, heur = -7.0, depth = 7
iter = 2240, queue = 4093, heur = -7.0, depth = 7
```

```
iter = 2241, queue = 4093, heur = -7.0, depth = 7
iter = 2242, queue = 4096, heur = -7.0, depth = 7
iter = 2243, queue = 4099, heur = -7.0, depth = 7
iter = 2244, queue = 4098, heur = -7.0, depth = 7
iter = 2245, queue = 4098, heur = -7.0, depth = 8
iter = 2246, queue = 4100, heur = -7.0, depth = 7
iter = 2247, queue = 4099, heur = -7.0, depth = 7
iter = 2248, queue = 4101, heur = -7.0, depth = 7
iter = 2249, queue = 4103, heur = -7.0, depth = 7
iter = 2250, queue = 4104, heur = -7.0, depth = 11
iter = 2251, queue = 4107, heur = -7.0, depth = 7
iter = 2252, queue = 4110, heur = -7.0, depth = 7
iter = 2253, queue = 4113, heur = -7.0, depth = 7
iter = 2254, queue = 4116, heur = -7.0, depth = 7
iter = 2255, queue = 4115, heur = -7.0, depth = 7
iter = 2256, queue = 4116, heur = -7.0, depth = 7
iter = 2257, queue = 4119, heur = -7.0, depth = 7
iter = 2258, queue = 4120, heur = -7.0, depth = 7
iter = 2259, queue = 4122, heur = -7.0, depth = 8
iter = 2260, queue = 4125, heur = -7.0, depth = 8
iter = 2261, queue = 4126, heur = -7.0, depth = 7
iter = 2262, queue = 4127, heur = -7.0, depth = 7
iter = 2263, queue = 4128, heur = -7.0, depth = 8
iter = 2264, queue = 4129, heur = -7.0, depth = 7
iter = 2265, queue = 4130, heur = -7.0, depth = 7
iter = 2266, queue = 4131, heur = -7.0, depth = 7
iter = 2267, queue = 4134, heur = -7.0, depth = 7
iter = 2268, queue = 4135, heur = -7.0, depth = 9
iter = 2269, queue = 4137, heur = -7.0, depth = 7
iter = 2270, queue = 4138, heur = -7.0, depth = 7
iter = 2271, queue = 4137, heur = -7.0, depth = 7
iter = 2272, queue = 4140, heur = -7.0, depth = 7
iter = 2273, queue = 4141, heur = -7.0, depth = 7
iter = 2274, queue = 4144, heur = -7.0, depth = 7
iter = 2275, queue = 4147, heur = -7.0, depth = 7
iter = 2276, queue = 4149, heur = -7.0, depth = 7
iter = 2277, queue = 4149, heur = -7.0, depth = 7
iter = 2278, queue = 4150, heur = -7.0, depth = 7
iter = 2279, queue = 4153, heur = -7.0, depth = 7
iter = 2280, queue = 4154, heur = -7.0, depth = 7
iter = 2281, queue = 4155, heur = -7.0, depth = 7
iter = 2282, queue = 4158, heur = -7.0, depth = 7
iter = 2283, queue = 4159, heur = -7.0, depth = 7
iter = 2284, queue = 4162, heur = -7.0, depth = 7
iter = 2285, queue = 4161, heur = -7.0, depth = 7
iter = 2286, queue = 4163, heur = -7.0, depth = 7
iter = 2287, queue = 4165, heur = -7.0, depth = 7
iter = 2288, queue = 4168, heur = -7.0, depth = 7
iter = 2289, queue = 4170, heur = -7.0, depth = 7
iter = 2290, queue = 4170, heur = -7.0, depth = 7
iter = 2291, queue = 4169, heur = -7.0, depth = 7
iter = 2292, queue = 4170, heur = -7.0, depth = 7
iter = 2293, queue = 4171, heur = -7.0, depth = 7
iter = 2294, queue = 4173, heur = -7.0, depth = 7
iter = 2295, queue = 4176, heur = -7.0, depth = 7
iter = 2296, queue = 4177, heur = -7.0, depth = 7
iter = 2297, queue = 4177, heur = -7.0, depth = 7
iter = 2298, queue = 4178, heur = -7.0, depth = 7
iter = 2299, queue = 4181, heur = -7.0, depth = 7
```

```
iter = 2300, queue = 4184, heur = -7.0, depth = 7
iter = 2301, queue = 4186, heur = -7.0, depth = 7
iter = 2302, queue = 4189, heur = -7.0, depth = 7
iter = 2303, queue = 4190, heur = -7.0, depth = 7
iter = 2304, queue = 4193, heur = -7.0, depth = 7
iter = 2305, queue = 4192, heur = -7.0, depth = 7
iter = 2306, queue = 4192, heur = -7.0, depth = 7
iter = 2307, queue = 4194, heur = -7.0, depth = 7
iter = 2308, queue = 4195, heur = -7.0, depth = 7
iter = 2309, queue = 4196, heur = -7.0, depth = 7
iter = 2310, queue = 4197, heur = -7.0, depth = 7
iter = 2311, queue = 4198, heur = -7.0, depth = 7
iter = 2312, queue = 4198, heur = -7.0, depth = 7
iter = 2313, queue = 4200, heur = -7.0, depth = 7
iter = 2314, queue = 4199, heur = -7.0, depth = 7
iter = 2315, queue = 4201, heur = -7.0, depth = 8
iter = 2316, queue = 4202, heur = -7.0, depth = 7
iter = 2317, queue = 4203, heur = -7.0, depth = 7
iter = 2318, queue = 4204, heur = -7.0, depth = 7
iter = 2319, queue = 4206, heur = -7.0, depth = 7
iter = 2320, queue = 4208, heur = -7.0, depth = 7
iter = 2321, queue = 4209, heur = -7.0, depth = 7
iter = 2322, queue = 4210, heur = -7.0, depth = 7
iter = 2323, queue = 4210, heur = -7.0, depth = 7
iter = 2324, queue = 4213, heur = -7.0, depth = 7
iter = 2325, queue = 4214, heur = -7.0, depth = 7
iter = 2326, queue = 4214, heur = -7.0, depth = 8
iter = 2327, queue = 4214, heur = -7.0, depth = 7
iter = 2328, queue = 4214, heur = -7.0, depth = 7
iter = 2329, queue = 4215, heur = -7.0, depth = 7
iter = 2330, queue = 4216, heur = -7.0, depth = 7
iter = 2331, queue = 4217, heur = -7.0, depth = 7
iter = 2332, queue = 4220, heur = -7.0, depth = 7
iter = 2333, queue = 4223, heur = -7.0, depth = 7
iter = 2334, queue = 4224, heur = -7.0, depth = 7
iter = 2335, queue = 4224, heur = -7.0, depth = 7
iter = 2336, queue = 4225, heur = -7.0, depth = 7
iter = 2337, queue = 4226, heur = -7.0, depth = 8
iter = 2338, queue = 4227, heur = -7.0, depth = 7
iter = 2339, queue = 4227, heur = -7.0, depth = 7
iter = 2340, queue = 4230, heur = -7.0, depth = 7
iter = 2341, queue = 4232, heur = -7.0, depth = 7
iter = 2342, queue = 4233, heur = -7.0, depth = 7
iter = 2343, queue = 4233, heur = -7.0, depth = 7
iter = 2344, queue = 4234, heur = -7.0, depth = 8
iter = 2345, queue = 4236, heur = -7.0, depth = 7
iter = 2346, queue = 4237, heur = -7.0, depth = 7
iter = 2347, queue = 4239, heur = -7.0, depth = 7
iter = 2348, queue = 4242, heur = -7.0, depth = 7
iter = 2349, queue = 4245, heur = -7.0, depth = 7
iter = 2350, queue = 4246, heur = -7.0, depth = 8
iter = 2351, queue = 4249, heur = -7.0, depth = 7
iter = 2352, queue = 4252, heur = -7.0, depth = 7
iter = 2353, queue = 4255, heur = -7.0, depth = 7
iter = 2354, queue = 4256, heur = -7.0, depth = 7
iter = 2355, queue = 4259, heur = -7.0, depth = 7
iter = 2356, queue = 4260, heur = -7.0, depth = 7
iter = 2357, queue = 4263, heur = -7.0, depth = 7
iter = 2358, queue = 4265, heur = -7.0, depth = 7
```

```
iter = 2359, queue = 4264, heur = -7.0, depth = 7
iter = 2360, queue = 4267, heur = -7.0, depth = 8
iter = 2361, queue = 4268, heur = -7.0, depth = 7
iter = 2362, queue = 4269, heur = -7.0, depth = 7
iter = 2363, queue = 4268, heur = -7.0, depth = 8
iter = 2364, queue = 4270, heur = -7.0, depth = 8
iter = 2365, queue = 4273, heur = -7.0, depth = 7
iter = 2366, queue = 4276, heur = -7.0, depth = 7
iter = 2367, queue = 4279, heur = -7.0, depth = 7
iter = 2368, queue = 4282, heur = -7.0, depth = 7
iter = 2369, queue = 4281, heur = -7.0, depth = 7
iter = 2370, queue = 4284, heur = -7.0, depth = 7
iter = 2371, queue = 4285, heur = -7.0, depth = 8
iter = 2372, queue = 4286, heur = -7.0, depth = 7
iter = 2373, queue = 4286, heur = -7.0, depth = 7
iter = 2374, queue = 4285, heur = -7.0, depth = 7
iter = 2375, queue = 4286, heur = -7.0, depth = 7
iter = 2376, queue = 4289, heur = -7.0, depth = 7
iter = 2377, queue = 4290, heur = -7.0, depth = 7
iter = 2378, queue = 4293, heur = -7.0, depth = 7
iter = 2379, queue = 4294, heur = -7.0, depth = 7
iter = 2380, queue = 4295, heur = -7.0, depth = 7
iter = 2381, queue = 4295, heur = -7.0, depth = 7
iter = 2382, queue = 4298, heur = -7.0, depth = 7
iter = 2383, queue = 4301, heur = -7.0, depth = 7
iter = 2384, queue = 4300, heur = -7.0, depth = 7
iter = 2385, queue = 4302, heur = -7.0, depth = 7
iter = 2386, queue = 4305, heur = -7.0, depth = 7
iter = 2387, queue = 4304, heur = -7.0, depth = 7
iter = 2388, queue = 4304, heur = -7.0, depth = 7
iter = 2389, queue = 4305, heur = -7.0, depth = 7
iter = 2390, queue = 4306, heur = -7.0, depth = 7
iter = 2391, queue = 4305, heur = -7.0, depth = 7
iter = 2392, queue = 4304, heur = -7.0, depth = 7
iter = 2393, queue = 4306, heur = -7.0, depth = 7
iter = 2394, queue = 4307, heur = -7.0, depth = 7
iter = 2395, queue = 4309, heur = -7.0, depth = 7
iter = 2396, queue = 4310, heur = -7.0, depth = 7
iter = 2397, queue = 4313, heur = -7.0, depth = 7
iter = 2398, queue = 4314, heur = -7.0, depth = 7
iter = 2399, queue = 4315, heur = -7.0, depth = 8
iter = 2400, queue = 4316, heur = -7.0, depth = 8
iter = 2401, queue = 4318, heur = -7.0, depth = 7
iter = 2402, queue = 4321, heur = -7.0, depth = 7
iter = 2403, queue = 4322, heur = -7.0, depth = 7
iter = 2404, queue = 4321, heur = -7.0, depth = 7
iter = 2405, queue = 4324, heur = -7.0, depth = 7
iter = 2406, queue = 4325, heur = -7.0, depth = 7
iter = 2407, queue = 4328, heur = -7.0, depth = 7
iter = 2408, queue = 4329, heur = -7.0, depth = 7
iter = 2409, queue = 4330, heur = -7.0, depth = 7
iter = 2410, queue = 4331, heur = -7.0, depth = 7
iter = 2411, queue = 4330, heur = -7.0, depth = 7
iter = 2412, queue = 4332, heur = -7.0, depth = 7
iter = 2413, queue = 4335, heur = -7.0, depth = 7
iter = 2414, queue = 4338, heur = -7.0, depth = 7
iter = 2415, queue = 4337, heur = -7.0, depth = 7
iter = 2416, queue = 4338, heur = -7.0, depth = 7
iter = 2417, queue = 4341, heur = -7.0, depth = 7
```

```
iter = 2418, queue = 4340, heur = -7.0, depth = 7
iter = 2419, queue = 4343, heur = -7.0, depth = 7
iter = 2420, queue = 4346, heur = -7.0, depth = 7
iter = 2421, queue = 4349, heur = -7.0, depth = 7
iter = 2422, queue = 4351, heur = -7.0, depth = 7
iter = 2423, queue = 4350, heur = -7.0, depth = 7
iter = 2424, queue = 4353, heur = -7.0, depth = 7
iter = 2425, queue = 4354, heur = -7.0, depth = 7
iter = 2426, queue = 4357, heur = -7.0, depth = 7
iter = 2427, queue = 4360, heur = -7.0, depth = 7
iter = 2428, queue = 4363, heur = -7.0, depth = 7
iter = 2429, queue = 4363, heur = -7.0, depth = 7
iter = 2430, queue = 4366, heur = -7.0, depth = 7
iter = 2431, queue = 4366, heur = -7.0, depth = 7
iter = 2432, queue = 4367, heur = -7.0, depth = 7
iter = 2433, queue = 4368, heur = -7.0, depth = 7
iter = 2434, queue = 4369, heur = -7.0, depth = 8
iter = 2435, queue = 4368, heur = -7.0, depth = 8
iter = 2436, queue = 4369, heur = -7.0, depth = 7
iter = 2437, queue = 4370, heur = -7.0, depth = 7
iter = 2438, queue = 4371, heur = -7.0, depth = 7
iter = 2439, queue = 4372, heur = -7.0, depth = 7
iter = 2440, queue = 4373, heur = -7.0, depth = 7
iter = 2441, queue = 4376, heur = -7.0, depth = 7
iter = 2442, queue = 4379, heur = -7.0, depth = 7
iter = 2443, queue = 4382, heur = -7.0, depth = 7
iter = 2444, queue = 4381, heur = -7.0, depth = 7
iter = 2445, queue = 4384, heur = -7.0, depth = 7
iter = 2446, queue = 4386, heur = -7.0, depth = 7
iter = 2447, queue = 4389, heur = -7.0, depth = 7
iter = 2448, queue = 4392, heur = -7.0, depth = 7
iter = 2449, queue = 4395, heur = -7.0, depth = 8
iter = 2450, queue = 4398, heur = -7.0, depth = 7
iter = 2451, queue = 4399, heur = -7.0, depth = 7
iter = 2452, queue = 4402, heur = -7.0, depth = 7
iter = 2453, queue = 4405, heur = -7.0, depth = 7
iter = 2454, queue = 4406, heur = -7.0, depth = 7
iter = 2455, queue = 4405, heur = -7.0, depth = 7
iter = 2456, queue = 4406, heur = -7.0, depth = 7
iter = 2457, queue = 4407, heur = -7.0, depth = 7
iter = 2458, queue = 4409, heur = -7.0, depth = 7
iter = 2459, queue = 4410, heur = -7.0, depth = 7
iter = 2460, queue = 4412, heur = -7.0, depth = 9
iter = 2461, queue = 4413, heur = -7.0, depth = 7
iter = 2462, queue = 4416, heur = -7.0, depth = 7
iter = 2463, queue = 4419, heur = -7.0, depth = 7
iter = 2464, queue = 4420, heur = -7.0, depth = 8
iter = 2465, queue = 4423, heur = -7.0, depth = 8
iter = 2466, queue = 4426, heur = -7.0, depth = 7
iter = 2467, queue = 4429, heur = -7.0, depth = 7
iter = 2468, queue = 4430, heur = -7.0, depth = 7
iter = 2469, queue = 4430, heur = -7.0, depth = 7
iter = 2470, queue = 4433, heur = -7.0, depth = 7
iter = 2471, queue = 4436, heur = -7.0, depth = 7
iter = 2472, queue = 4437, heur = -7.0, depth = 7
iter = 2473, queue = 4438, heur = -7.0, depth = 8
iter = 2474, queue = 4439, heur = -7.0, depth = 7
iter = 2475, queue = 4440, heur = -7.0, depth = 7
iter = 2476, queue = 4441, heur = -7.0, depth = 7
```

```
iter = 2477, queue = 4442, heur = -7.0, depth = 7
iter = 2478, queue = 4441, heur = -7.0, depth = 7
iter = 2479, queue = 4442, heur = -7.0, depth = 7
iter = 2480, queue = 4443, heur = -7.0, depth = 7
iter = 2481, queue = 4443, heur = -7.0, depth = 7
iter = 2482, queue = 4444, heur = -7.0, depth = 8
iter = 2483, queue = 4443, heur = -7.0, depth = 7
iter = 2484, queue = 4444, heur = -7.0, depth = 7
iter = 2485, queue = 4445, heur = -7.0, depth = 7
iter = 2486, queue = 4446, heur = -7.0, depth = 8
iter = 2487, queue = 4449, heur = -7.0, depth = 7
iter = 2488, queue = 4451, heur = -7.0, depth = 7
iter = 2489, queue = 4453, heur = -7.0, depth = 7
iter = 2490, queue = 4456, heur = -7.0, depth = 7
iter = 2491, queue = 4457, heur = -7.0, depth = 7
iter = 2492, queue = 4460, heur = -7.0, depth = 7
iter = 2493, queue = 4463, heur = -7.0, depth = 7
iter = 2494, queue = 4463, heur = -7.0, depth = 7
iter = 2495, queue = 4464, heur = -7.0, depth = 7
iter = 2496, queue = 4465, heur = -7.0, depth = 7
iter = 2497, queue = 4465, heur = -7.0, depth = 7
iter = 2498, queue = 4465, heur = -7.0, depth = 7
iter = 2499, queue = 4465, heur = -7.0, depth = 7
iter = 2500, queue = 4467, heur = -7.0, depth = 7
iter = 2501, queue = 4468, heur = -7.0, depth = 7
iter = 2502, queue = 4469, heur = -7.0, depth = 7
iter = 2503, queue = 4471, heur = -7.0, depth = 7
iter = 2504, queue = 4474, heur = -7.0, depth = 7
iter = 2505, queue = 4477, heur = -7.0, depth = 7
iter = 2506, queue = 4478, heur = -7.0, depth = 7
iter = 2507, queue = 4478, heur = -7.0, depth = 7
iter = 2508, queue = 4481, heur = -7.0, depth = 7
iter = 2509, queue = 4484, heur = -7.0, depth = 8
iter = 2510, queue = 4486, heur = -7.0, depth = 7
iter = 2511, queue = 4487, heur = -7.0, depth = 7
iter = 2512, queue = 4488, heur = -7.0, depth = 7
iter = 2513, queue = 4489, heur = -7.0, depth = 7
iter = 2514, queue = 4491, heur = -7.0, depth = 7
iter = 2515, queue = 4492, heur = -7.0, depth = 7
iter = 2516, queue = 4493, heur = -7.0, depth = 7
iter = 2517, queue = 4492, heur = -7.0, depth = 7
iter = 2518, queue = 4493, heur = -7.0, depth = 7
iter = 2519, queue = 4494, heur = -7.0, depth = 7
iter = 2520, queue = 4494, heur = -7.0, depth = 7
iter = 2521, queue = 4497, heur = -7.0, depth = 7
iter = 2522, queue = 4497, heur = -7.0, depth = 7
iter = 2523, queue = 4496, heur = -7.0, depth = 7
iter = 2524, queue = 4499, heur = -7.0, depth = 8
iter = 2525, queue = 4500, heur = -7.0, depth = 7
iter = 2526, queue = 4503, heur = -7.0, depth = 7
iter = 2527, queue = 4504, heur = -7.0, depth = 7
iter = 2528, queue = 4507, heur = -7.0, depth = 7
iter = 2529, queue = 4510, heur = -7.0, depth = 7
iter = 2530, queue = 4511, heur = -7.0, depth = 7
iter = 2531, queue = 4510, heur = -7.0, depth = 8
iter = 2532, queue = 4512, heur = -7.0, depth = 7
iter = 2533, queue = 4511, heur = -7.0, depth = 7
iter = 2534, queue = 4512, heur = -7.0, depth = 7
iter = 2535, queue = 4515, heur = -7.0, depth = 7
```

```
iter = 2536, queue = 4518, heur = -7.0, depth = 7
iter = 2537, queue = 4521, heur = -7.0, depth = 7
iter = 2538, queue = 4523, heur = -7.0, depth = 7
iter = 2539, queue = 4523, heur = -7.0, depth = 7
iter = 2540, queue = 4524, heur = -7.0, depth = 7
iter = 2541, queue = 4525, heur = -7.0, depth = 7
iter = 2542, queue = 4524, heur = -7.0, depth = 7
iter = 2543, queue = 4525, heur = -7.0, depth = 7
iter = 2544, queue = 4524, heur = -7.0, depth = 7
iter = 2545, queue = 4526, heur = -7.0, depth = 7
iter = 2546, queue = 4529, heur = -7.0, depth = 7
iter = 2547, queue = 4530, heur = -7.0, depth = 7
iter = 2548, queue = 4532, heur = -7.0, depth = 7
iter = 2549, queue = 4533, heur = -7.0, depth = 7
iter = 2550, queue = 4534, heur = -7.0, depth = 7
iter = 2551, queue = 4537, heur = -7.0, depth = 7
iter = 2552, queue = 4537, heur = -7.0, depth = 7
iter = 2553, queue = 4537, heur = -7.0, depth = 7
iter = 2554, queue = 4540, heur = -7.0, depth = 7
iter = 2555, queue = 4539, heur = -7.0, depth = 7
iter = 2556, queue = 4540, heur = -7.0, depth = 7
iter = 2557, queue = 4541, heur = -7.0, depth = 7
iter = 2558, queue = 4542, heur = -7.0, depth = 7
iter = 2559, queue = 4541, heur = -7.0, depth = 7
iter = 2560, queue = 4544, heur = -7.0, depth = 8
iter = 2561, queue = 4547, heur = -7.0, depth = 7
iter = 2562, queue = 4548, heur = -7.0, depth = 7
iter = 2563, queue = 4551, heur = -7.0, depth = 7
iter = 2564, queue = 4551, heur = -7.0, depth = 7
iter = 2565, queue = 4551, heur = -7.0, depth = 7
iter = 2566, queue = 4554, heur = -7.0, depth = 7
iter = 2567, queue = 4555, heur = -7.0, depth = 7
iter = 2568, queue = 4558, heur = -7.0, depth = 7
iter = 2569, queue = 4561, heur = -7.0, depth = 7
iter = 2570, queue = 4564, heur = -7.0, depth = 7
iter = 2571, queue = 4565, heur = -7.0, depth = 7
iter = 2572, queue = 4568, heur = -7.0, depth = 7
iter = 2573, queue = 4569, heur = -7.0, depth = 7
iter = 2574, queue = 4570, heur = -7.0, depth = 7
iter = 2575, queue = 4569, heur = -7.0, depth = 7
iter = 2576, queue = 4568, heur = -7.0, depth = 7
iter = 2577, queue = 4571, heur = -7.0, depth = 7
iter = 2578, queue = 4571, heur = -7.0, depth = 7
iter = 2579, queue = 4571, heur = -7.0, depth = 7
iter = 2580, queue = 4572, heur = -7.0, depth = 7
iter = 2581, queue = 4574, heur = -7.0, depth = 7
iter = 2582, queue = 4577, heur = -7.0, depth = 8
iter = 2583, queue = 4578, heur = -7.0, depth = 7
iter = 2584, queue = 4578, heur = -7.0, depth = 7
iter = 2585, queue = 4579, heur = -7.0, depth = 7
iter = 2586, queue = 4581, heur = -7.0, depth = 7
iter = 2587, queue = 4582, heur = -7.0, depth = 8
iter = 2588, queue = 4583, heur = -7.0, depth = 7
iter = 2589, queue = 4584, heur = -7.0, depth = 7
iter = 2590, queue = 4587, heur = -7.0, depth = 8
iter = 2591, queue = 4590, heur = -7.0, depth = 7
iter = 2592, queue = 4591, heur = -7.0, depth = 7
iter = 2593, queue = 4590, heur = -7.0, depth = 7
iter = 2594, queue = 4591, heur = -7.0, depth = 7
```

```
iter = 2595, queue = 4590, heur = -7.0, depth = 7
iter = 2596, queue = 4592, heur = -7.0, depth = 7
iter = 2597, queue = 4593, heur = -7.0, depth = 7
iter = 2598, queue = 4594, heur = -7.0, depth = 7
iter = 2599, queue = 4595, heur = -7.0, depth = 7
iter = 2600, queue = 4598, heur = -7.0, depth = 7
iter = 2601, queue = 4600, heur = -7.0, depth = 7
iter = 2602, queue = 4601, heur = -7.0, depth = 7
iter = 2603, queue = 4603, heur = -7.0, depth = 7
iter = 2604, queue = 4602, heur = -7.0, depth = 7
iter = 2605, queue = 4605, heur = -7.0, depth = 8
iter = 2606, queue = 4608, heur = -7.0, depth = 7
iter = 2607, queue = 4609, heur = -7.0, depth = 8
iter = 2608, queue = 4610, heur = -7.0, depth = 8
iter = 2609, queue = 4611, heur = -7.0, depth = 7
iter = 2610, queue = 4612, heur = -7.0, depth = 7
iter = 2611, queue = 4614, heur = -7.0, depth = 7
iter = 2612, queue = 4617, heur = -7.0, depth = 7
iter = 2613, queue = 4620, heur = -7.0, depth = 7
iter = 2614, queue = 4621, heur = -7.0, depth = 7
iter = 2615, queue = 4622, heur = -7.0, depth = 7
iter = 2616, queue = 4623, heur = -7.0, depth = 7
iter = 2617, queue = 4624, heur = -7.0, depth = 7
iter = 2618, queue = 4623, heur = -7.0, depth = 8
iter = 2619, queue = 4624, heur = -7.0, depth = 8
iter = 2620, queue = 4627, heur = -7.0, depth = 7
iter = 2621, queue = 4628, heur = -7.0, depth = 7
iter = 2622, queue = 4629, heur = -7.0, depth = 7
iter = 2623, queue = 4631, heur = -7.0, depth = 7
iter = 2624, queue = 4633, heur = -7.0, depth = 7
iter = 2625, queue = 4636, heur = -7.0, depth = 7
iter = 2626, queue = 4639, heur = -7.0, depth = 8
iter = 2627, queue = 4642, heur = -7.0, depth = 7
iter = 2628, queue = 4644, heur = -7.0, depth = 8
iter = 2629, queue = 4646, heur = -7.0, depth = 8
iter = 2630, queue = 4649, heur = -7.0, depth = 7
iter = 2631, queue = 4652, heur = -7.0, depth = 7
iter = 2632, queue = 4655, heur = -7.0, depth = 7
iter = 2633, queue = 4658, heur = -7.0, depth = 7
iter = 2634, queue = 4659, heur = -7.0, depth = 7
iter = 2635, queue = 4662, heur = -7.0, depth = 7
iter = 2636, queue = 4665, heur = -7.0, depth = 7
iter = 2637, queue = 4668, heur = -7.0, depth = 7
iter = 2638, queue = 4671, heur = -7.0, depth = 7
iter = 2639, queue = 4672, heur = -7.0, depth = 7
iter = 2640, queue = 4675, heur = -7.0, depth = 7
iter = 2641, queue = 4676, heur = -7.0, depth = 7
iter = 2642, queue = 4679, heur = -7.0, depth = 7
iter = 2643, queue = 4682, heur = -7.0, depth = 7
iter = 2644, queue = 4685, heur = -7.0, depth = 7
iter = 2645, queue = 4686, heur = -7.0, depth = 7
iter = 2646, queue = 4687, heur = -7.0, depth = 7
iter = 2647, queue = 4688, heur = -7.0, depth = 7
iter = 2648, queue = 4689, heur = -7.0, depth = 7
iter = 2649, queue = 4688, heur = -7.0, depth = 7
iter = 2650, queue = 4689, heur = -7.0, depth = 7
iter = 2651, queue = 4689, heur = -7.0, depth = 7
iter = 2652, queue = 4690, heur = -7.0, depth = 7
iter = 2653, queue = 4691, heur = -7.0, depth = 7
```

```
iter = 2654, queue = 4692, heur = -7.0, depth = 7
iter = 2655, queue = 4692, heur = -7.0, depth = 7
iter = 2656, queue = 4694, heur = -7.0, depth = 7
iter = 2657, queue = 4694, heur = -7.0, depth = 7
iter = 2658, queue = 4697, heur = -7.0, depth = 7
iter = 2659, queue = 4697, heur = -7.0, depth = 7
iter = 2660, queue = 4698, heur = -7.0, depth = 7
iter = 2661, queue = 4700, heur = -7.0, depth = 7
iter = 2662, queue = 4699, heur = -7.0, depth = 7
iter = 2663, queue = 4702, heur = -7.0, depth = 7
iter = 2664, queue = 4703, heur = -7.0, depth = 7
iter = 2665, queue = 4703, heur = -7.0, depth = 7
iter = 2666, queue = 4704, heur = -7.0, depth = 7
iter = 2667, queue = 4706, heur = -7.0, depth = 7
iter = 2668, queue = 4707, heur = -7.0, depth = 7
iter = 2669, queue = 4709, heur = -7.0, depth = 7
iter = 2670, queue = 4712, heur = -7.0, depth = 7
iter = 2671, queue = 4715, heur = -7.0, depth = 7
iter = 2672, queue = 4716, heur = -7.0, depth = 7
iter = 2673, queue = 4718, heur = -7.0, depth = 7
iter = 2674, queue = 4720, heur = -7.0, depth = 7
iter = 2675, queue = 4721, heur = -7.0, depth = 7
iter = 2676, queue = 4724, heur = -7.0, depth = 7
iter = 2677, queue = 4727, heur = -7.0, depth = 7
iter = 2678, queue = 4730, heur = -7.0, depth = 7
iter = 2679, queue = 4732, heur = -7.0, depth = 7
iter = 2680, queue = 4732, heur = -7.0, depth = 7
iter = 2681, queue = 4733, heur = -7.0, depth = 7
iter = 2682, queue = 4735, heur = -7.0, depth = 7
iter = 2683, queue = 4738, heur = -7.0, depth = 7
iter = 2684, queue = 4741, heur = -7.0, depth = 7
iter = 2685, queue = 4742, heur = -7.0, depth = 7
iter = 2686, queue = 4745, heur = -7.0, depth = 7
iter = 2687, queue = 4746, heur = -7.0, depth = 7
iter = 2688, queue = 4748, heur = -7.0, depth = 7
iter = 2689, queue = 4749, heur = -7.0, depth = 7
iter = 2690, queue = 4752, heur = -7.0, depth = 7
iter = 2691, queue = 4755, heur = -7.0, depth = 7
iter = 2692, queue = 4758, heur = -7.0, depth = 7
iter = 2693, queue = 4759, heur = -7.0, depth = 7
iter = 2694, queue = 4762, heur = -7.0, depth = 7
iter = 2695, queue = 4765, heur = -7.0, depth = 7
iter = 2696, queue = 4766, heur = -7.0, depth = 7
iter = 2697, queue = 4765, heur = -7.0, depth = 7
iter = 2698, queue = 4768, heur = -7.0, depth = 7
iter = 2699, queue = 4769, heur = -7.0, depth = 7
iter = 2700, queue = 4769, heur = -7.0, depth = 7
iter = 2701, queue = 4772, heur = -7.0, depth = 7
iter = 2702, queue = 4775, heur = -7.0, depth = 7
iter = 2703, queue = 4777, heur = -7.0, depth = 7
iter = 2704, queue = 4778, heur = -7.0, depth = 7
iter = 2705, queue = 4777, heur = -7.0, depth = 7
iter = 2706, queue = 4776, heur = -7.0, depth = 7
iter = 2707, queue = 4777, heur = -7.0, depth = 7
iter = 2708, queue = 4780, heur = -7.0, depth = 7
iter = 2709, queue = 4781, heur = -7.0, depth = 7
iter = 2710, queue = 4783, heur = -7.0, depth = 7
iter = 2711, queue = 4784, heur = -7.0, depth = 8
iter = 2712, queue = 4784, heur = -7.0, depth = 7
```

```
iter = 2713, queue = 4785, heur = -7.0, depth = 8
iter = 2714, queue = 4786, heur = -7.0, depth = 8
iter = 2715, queue = 4788, heur = -7.0, depth = 7
iter = 2716, queue = 4787, heur = -7.0, depth = 7
iter = 2717, queue = 4788, heur = -7.0, depth = 7
iter = 2718, queue = 4791, heur = -7.0, depth = 7
iter = 2719, queue = 4792, heur = -7.0, depth = 7
iter = 2720, queue = 4795, heur = -7.0, depth = 7
iter = 2721, queue = 4798, heur = -7.0, depth = 7
iter = 2722, queue = 4799, heur = -7.0, depth = 7
iter = 2723, queue = 4802, heur = -7.0, depth = 7
iter = 2724, queue = 4805, heur = -7.0, depth = 7
iter = 2725, queue = 4808, heur = -7.0, depth = 8
iter = 2726, queue = 4810, heur = -7.0, depth = 7
iter = 2727, queue = 4809, heur = -7.0, depth = 7
iter = 2728, queue = 4812, heur = -7.0, depth = 7
iter = 2729, queue = 4813, heur = -7.0, depth = 7
iter = 2730, queue = 4815, heur = -7.0, depth = 7
iter = 2731, queue = 4816, heur = -7.0, depth = 7
iter = 2732, queue = 4819, heur = -7.0, depth = 7
iter = 2733, queue = 4822, heur = -7.0, depth = 7
iter = 2734, queue = 4823, heur = -7.0, depth = 7
iter = 2735, queue = 4824, heur = -7.0, depth = 7
iter = 2736, queue = 4827, heur = -7.0, depth = 7
iter = 2737, queue = 4828, heur = -7.0, depth = 7
iter = 2738, queue = 4830, heur = -7.0, depth = 7
iter = 2739, queue = 4831, heur = -7.0, depth = 7
iter = 2740, queue = 4834, heur = -7.0, depth = 8
iter = 2741, queue = 4835, heur = -7.0, depth = 7
iter = 2742, queue = 4836, heur = -7.0, depth = 7
iter = 2743, queue = 4836, heur = -7.0, depth = 7
iter = 2744, queue = 4837, heur = -7.0, depth = 7
iter = 2745, queue = 4838, heur = -7.0, depth = 7
iter = 2746, queue = 4839, heur = -7.0, depth = 7
iter = 2747, queue = 4840, heur = -7.0, depth = 7
iter = 2748, queue = 4841, heur = -7.0, depth = 7
iter = 2749, queue = 4842, heur = -7.0, depth = 7
iter = 2750, queue = 4845, heur = -7.0, depth = 7
iter = 2751, queue = 4847, heur = -7.0, depth = 7
iter = 2752, queue = 4849, heur = -7.0, depth = 7
iter = 2753, queue = 4849, heur = -7.0, depth = 7
iter = 2754, queue = 4848, heur = -7.0, depth = 7
iter = 2755, queue = 4849, heur = -7.0, depth = 7
iter = 2756, queue = 4852, heur = -7.0, depth = 7
iter = 2757, queue = 4855, heur = -7.0, depth = 7
iter = 2758, queue = 4855, heur = -7.0, depth = 7
iter = 2759, queue = 4858, heur = -7.0, depth = 7
iter = 2760, queue = 4859, heur = -7.0, depth = 7
iter = 2761, queue = 4859, heur = -7.0, depth = 7
iter = 2762, queue = 4862, heur = -7.0, depth = 7
iter = 2763, queue = 4865, heur = -7.0, depth = 7
iter = 2764, queue = 4866, heur = -7.0, depth = 7
iter = 2765, queue = 4867, heur = -7.0, depth = 7
iter = 2766, queue = 4868, heur = -7.0, depth = 7
iter = 2767, queue = 4870, heur = -7.0, depth = 7
iter = 2768, queue = 4870, heur = -7.0, depth = 7
iter = 2769, queue = 4872, heur = -7.0, depth = 7
iter = 2770, queue = 4875, heur = -7.0, depth = 7
iter = 2771, queue = 4877, heur = -7.0, depth = 7
```

```
iter = 2772, queue = 4878, heur = -7.0, depth = 7
iter = 2773, queue = 4877, heur = -7.0, depth = 7
iter = 2774, queue = 4878, heur = -7.0, depth = 8
iter = 2775, queue = 4879, heur = -7.0, depth = 7
iter = 2776, queue = 4880, heur = -7.0, depth = 7
iter = 2777, queue = 4883, heur = -7.0, depth = 7
iter = 2778, queue = 4886, heur = -7.0, depth = 7
iter = 2779, queue = 4888, heur = -7.0, depth = 7
iter = 2780, queue = 4889, heur = -7.0, depth = 7
iter = 2781, queue = 4890, heur = -7.0, depth = 7
iter = 2782, queue = 4891, heur = -7.0, depth = 7
iter = 2783, queue = 4892, heur = -7.0, depth = 7
iter = 2784, queue = 4895, heur = -7.0, depth = 7
iter = 2785, queue = 4896, heur = -7.0, depth = 7
iter = 2786, queue = 4897, heur = -7.0, depth = 7
iter = 2787, queue = 4898, heur = -7.0, depth = 7
iter = 2788, queue = 4899, heur = -7.0, depth = 7
iter = 2789, queue = 4902, heur = -7.0, depth = 7
iter = 2790, queue = 4903, heur = -7.0, depth = 8
iter = 2791, queue = 4905, heur = -7.0, depth = 7
iter = 2792, queue = 4908, heur = -7.0, depth = 7
iter = 2793, queue = 4909, heur = -7.0, depth = 7
iter = 2794, queue = 4910, heur = -7.0, depth = 8
iter = 2795, queue = 4911, heur = -7.0, depth = 7
iter = 2796, queue = 4914, heur = -7.0, depth = 7
iter = 2797, queue = 4917, heur = -7.0, depth = 10
iter = 2798, queue = 4918, heur = -7.0, depth = 7
iter = 2799, queue = 4919, heur = -7.0, depth = 7
iter = 2800, queue = 4922, heur = -7.0, depth = 7
iter = 2801, queue = 4925, heur = -7.0, depth = 7
iter = 2802, queue = 4927, heur = -7.0, depth = 7
iter = 2803, queue = 4927, heur = -7.0, depth = 9
iter = 2804, queue = 4929, heur = -7.0, depth = 7
iter = 2805, queue = 4930, heur = -7.0, depth = 7
iter = 2806, queue = 4931, heur = -7.0, depth = 7
iter = 2807, queue = 4932, heur = -7.0, depth = 7
iter = 2808, queue = 4935, heur = -7.0, depth = 7
iter = 2809, queue = 4938, heur = -7.0, depth = 7
iter = 2810, queue = 4939, heur = -7.0, depth = 7
iter = 2811, queue = 4940, heur = -7.0, depth = 7
iter = 2812, queue = 4940, heur = -7.0, depth = 7
iter = 2813, queue = 4940, heur = -7.0, depth = 7
iter = 2814, queue = 4942, heur = -7.0, depth = 7
iter = 2815, queue = 4941, heur = -7.0, depth = 7
iter = 2816, queue = 4944, heur = -7.0, depth = 7
iter = 2817, queue = 4946, heur = -7.0, depth = 7
iter = 2818, queue = 4947, heur = -7.0, depth = 7
iter = 2819, queue = 4947, heur = -7.0, depth = 7
iter = 2820, queue = 4948, heur = -7.0, depth = 7
iter = 2821, queue = 4949, heur = -7.0, depth = 7
iter = 2822, queue = 4950, heur = -7.0, depth = 8
iter = 2823, queue = 4950, heur = -7.0, depth = 7
iter = 2824, queue = 4951, heur = -7.0, depth = 7
iter = 2825, queue = 4954, heur = -7.0, depth = 7
iter = 2826, queue = 4956, heur = -7.0, depth = 7
iter = 2827, queue = 4959, heur = -7.0, depth = 7
iter = 2828, queue = 4962, heur = -7.0, depth = 7
iter = 2829, queue = 4963, heur = -7.0, depth = 7
iter = 2830, queue = 4966, heur = -7.0, depth = 7
```

```
iter = 2831, queue = 4966, heur = -7.0, depth = 7
iter = 2832, queue = 4969, heur = -7.0, depth = 7
iter = 2833, queue = 4972, heur = -7.0, depth = 7
iter = 2834, queue = 4973, heur = -7.0, depth = 7
iter = 2835, queue = 4976, heur = -7.0, depth = 7
iter = 2836, queue = 4979, heur = -7.0, depth = 7
iter = 2837, queue = 4982, heur = -7.0, depth = 7
iter = 2838, queue = 4984, heur = -7.0, depth = 7
iter = 2839, queue = 4983, heur = -7.0, depth = 7
iter = 2840, queue = 4983, heur = -7.0, depth = 7
iter = 2841, queue = 4984, heur = -7.0, depth = 7
iter = 2842, queue = 4985, heur = -7.0, depth = 7
iter = 2843, queue = 4986, heur = -7.0, depth = 7
iter = 2844, queue = 4989, heur = -7.0, depth = 7
iter = 2845, queue = 4992, heur = -7.0, depth = 7
iter = 2846, queue = 4992, heur = -7.0, depth = 7
iter = 2847, queue = 4993, heur = -7.0, depth = 7
iter = 2848, queue = 4993, heur = -7.0, depth = 7
iter = 2849, queue = 4994, heur = -7.0, depth = 7
iter = 2850, queue = 4995, heur = -7.0, depth = 7
iter = 2851, queue = 4998, heur = -7.0, depth = 7
iter = 2852, queue = 5001, heur = -7.0, depth = 7
iter = 2853, queue = 5004, heur = -7.0, depth = 7
iter = 2854, queue = 5005, heur = -7.0, depth = 7
iter = 2855, queue = 5006, heur = -7.0, depth = 7
iter = 2856, queue = 5007, heur = -7.0, depth = 7
iter = 2857, queue = 5010, heur = -7.0, depth = 7
iter = 2858, queue = 5013, heur = -7.0, depth = 7
iter = 2859, queue = 5014, heur = -7.0, depth = 7
iter = 2860, queue = 5017, heur = -7.0, depth = 7
iter = 2861, queue = 5019, heur = -7.0, depth = 7
iter = 2862, queue = 5020, heur = -7.0, depth = 7
iter = 2863, queue = 5019, heur = -7.0, depth = 7
iter = 2864, queue = 5019, heur = -7.0, depth = 7
iter = 2865, queue = 5020, heur = -7.0, depth = 7
iter = 2866, queue = 5023, heur = -7.0, depth = 7
iter = 2867, queue = 5024, heur = -7.0, depth = 7
iter = 2868, queue = 5027, heur = -7.0, depth = 7
iter = 2869, queue = 5027, heur = -7.0, depth = 7
iter = 2870, queue = 5030, heur = -7.0, depth = 7
iter = 2871, queue = 5033, heur = -7.0, depth = 7
iter = 2872, queue = 5034, heur = -7.0, depth = 7
iter = 2873, queue = 5035, heur = -7.0, depth = 7
iter = 2874, queue = 5038, heur = -7.0, depth = 7
iter = 2875, queue = 5039, heur = -7.0, depth = 7
iter = 2876, queue = 5040, heur = -7.0, depth = 7
iter = 2877, queue = 5043, heur = -7.0, depth = 7
iter = 2878, queue = 5042, heur = -7.0, depth = 7
iter = 2879, queue = 5045, heur = -7.0, depth = 7
iter = 2880, queue = 5048, heur = -7.0, depth = 7
iter = 2881, queue = 5049, heur = -7.0, depth = 7
iter = 2882, queue = 5051, heur = -7.0, depth = 7
iter = 2883, queue = 5054, heur = -7.0, depth = 7
iter = 2884, queue = 5055, heur = -7.0, depth = 8
iter = 2885, queue = 5054, heur = -7.0, depth = 7
iter = 2886, queue = 5055, heur = -7.0, depth = 8
iter = 2887, queue = 5056, heur = -7.0, depth = 7
iter = 2888, queue = 5059, heur = -7.0, depth = 7
iter = 2889, queue = 5060, heur = -7.0, depth = 7
```

```
iter = 2890, queue = 5063, heur = -7.0, depth = 7
iter = 2891, queue = 5063, heur = -7.0, depth = 7
iter = 2892, queue = 5063, heur = -7.0, depth = 7
iter = 2893, queue = 5064, heur = -7.0, depth = 7
iter = 2894, queue = 5065, heur = -7.0, depth = 7
iter = 2895, queue = 5064, heur = -7.0, depth = 7
iter = 2896, queue = 5065, heur = -7.0, depth = 8
iter = 2897, queue = 5066, heur = -7.0, depth = 7
iter = 2898, queue = 5069, heur = -7.0, depth = 7
iter = 2899, queue = 5072, heur = -7.0, depth = 7
iter = 2900, queue = 5073, heur = -7.0, depth = 7
iter = 2901, queue = 5074, heur = -7.0, depth = 7
iter = 2902, queue = 5076, heur = -7.0, depth = 7
iter = 2903, queue = 5078, heur = -7.0, depth = 7
iter = 2904, queue = 5081, heur = -7.0, depth = 7
iter = 2905, queue = 5082, heur = -7.0, depth = 7
iter = 2906, queue = 5083, heur = -7.0, depth = 7
iter = 2907, queue = 5086, heur = -7.0, depth = 7
iter = 2908, queue = 5087, heur = -7.0, depth = 7
iter = 2909, queue = 5090, heur = -7.0, depth = 7
iter = 2910, queue = 5092, heur = -7.0, depth = 7
iter = 2911, queue = 5093, heur = -7.0, depth = 7
iter = 2912, queue = 5096, heur = -7.0, depth = 7
iter = 2913, queue = 5097, heur = -7.0, depth = 7
iter = 2914, queue = 5098, heur = -7.0, depth = 7
iter = 2915, queue = 5099, heur = -7.0, depth = 7
iter = 2916, queue = 5100, heur = -7.0, depth = 7
iter = 2917, queue = 5103, heur = -7.0, depth = 7
iter = 2918, queue = 5106, heur = -7.0, depth = 7
iter = 2919, queue = 5106, heur = -7.0, depth = 7
iter = 2920, queue = 5106, heur = -7.0, depth = 7
iter = 2921, queue = 5107, heur = -7.0, depth = 7
iter = 2922, queue = 5107, heur = -7.0, depth = 7
iter = 2923, queue = 5108, heur = -7.0, depth = 7
iter = 2924, queue = 5109, heur = -7.0, depth = 7
iter = 2925, queue = 5112, heur = -7.0, depth = 7
iter = 2926, queue = 5113, heur = -7.0, depth = 7
iter = 2927, queue = 5116, heur = -7.0, depth = 7
iter = 2928, queue = 5118, heur = -7.0, depth = 7
iter = 2929, queue = 5117, heur = -7.0, depth = 7
iter = 2930, queue = 5118, heur = -7.0, depth = 7
iter = 2931, queue = 5121, heur = -7.0, depth = 7
iter = 2932, queue = 5122, heur = -7.0, depth = 7
iter = 2933, queue = 5122, heur = -7.0, depth = 8
iter = 2934, queue = 5125, heur = -7.0, depth = 7
iter = 2935, queue = 5128, heur = -7.0, depth = 7
iter = 2936, queue = 5130, heur = -7.0, depth = 7
iter = 2937, queue = 5131, heur = -7.0, depth = 7
iter = 2938, queue = 5132, heur = -7.0, depth = 7
iter = 2939, queue = 5133, heur = -7.0, depth = 7
iter = 2940, queue = 5134, heur = -7.0, depth = 7
iter = 2941, queue = 5134, heur = -7.0, depth = 7
iter = 2942, queue = 5136, heur = -7.0, depth = 7
iter = 2943, queue = 5137, heur = -7.0, depth = 7
iter = 2944, queue = 5138, heur = -7.0, depth = 7
iter = 2945, queue = 5141, heur = -7.0, depth = 7
iter = 2946, queue = 5140, heur = -7.0, depth = 7
iter = 2947, queue = 5142, heur = -7.0, depth = 7
iter = 2948, queue = 5144, heur = -7.0, depth = 7
```

```
iter = 2949, queue = 5147, heur = -7.0, depth = 7
iter = 2950, queue = 5148, heur = -7.0, depth = 8
iter = 2951, queue = 5149, heur = -7.0, depth = 8
iter = 2952, queue = 5152, heur = -7.0, depth = 7
iter = 2953, queue = 5155, heur = -7.0, depth = 8
iter = 2954, queue = 5158, heur = -7.0, depth = 7
iter = 2955, queue = 5161, heur = -7.0, depth = 8
iter = 2956, queue = 5163, heur = -7.0, depth = 7
iter = 2957, queue = 5164, heur = -7.0, depth = 7
iter = 2958, queue = 5165, heur = -7.0, depth = 7
iter = 2959, queue = 5168, heur = -7.0, depth = 7
iter = 2960, queue = 5171, heur = -7.0, depth = 7
iter = 2961, queue = 5172, heur = -7.0, depth = 9
iter = 2962, queue = 5174, heur = -7.0, depth = 9
iter = 2963, queue = 5177, heur = -7.0, depth = 7
iter = 2964, queue = 5180, heur = -7.0, depth = 7
iter = 2965, queue = 5181, heur = -7.0, depth = 9
iter = 2966, queue = 5184, heur = -7.0, depth = 7
iter = 2967, queue = 5185, heur = -7.0, depth = 7
iter = 2968, queue = 5188, heur = -7.0, depth = 7
iter = 2969, queue = 5191, heur = -7.0, depth = 7
iter = 2970, queue = 5193, heur = -7.0, depth = 7
iter = 2971, queue = 5194, heur = -7.0, depth = 7
iter = 2972, queue = 5196, heur = -7.0, depth = 7
iter = 2973, queue = 5199, heur = -7.0, depth = 7
iter = 2974, queue = 5201, heur = -7.0, depth = 8
iter = 2975, queue = 5203, heur = -7.0, depth = 8
iter = 2976, queue = 5206, heur = -7.0, depth = 8
iter = 2977, queue = 5207, heur = -7.0, depth = 8
iter = 2978, queue = 5210, heur = -7.0, depth = 7
iter = 2979, queue = 5213, heur = -7.0, depth = 7
iter = 2980, queue = 5215, heur = -7.0, depth = 8
iter = 2981, queue = 5216, heur = -7.0, depth = 7
iter = 2982, queue = 5219, heur = -7.0, depth = 7
iter = 2983, queue = 5222, heur = -7.0, depth = 7
iter = 2984, queue = 5221, heur = -7.0, depth = 7
iter = 2985, queue = 5224, heur = -7.0, depth = 8
iter = 2986, queue = 5225, heur = -7.0, depth = 7
iter = 2987, queue = 5226, heur = -7.0, depth = 7
iter = 2988, queue = 5226, heur = -7.0, depth = 8
iter = 2989, queue = 5228, heur = -7.0, depth = 7
iter = 2990, queue = 5231, heur = -7.0, depth = 7
iter = 2991, queue = 5234, heur = -7.0, depth = 8
iter = 2992, queue = 5234, heur = -7.0, depth = 7
iter = 2993, queue = 5235, heur = -7.0, depth = 7
iter = 2994, queue = 5237, heur = -7.0, depth = 7
iter = 2995, queue = 5239, heur = -7.0, depth = 7
iter = 2996, queue = 5242, heur = -7.0, depth = 7
iter = 2997, queue = 5243, heur = -7.0, depth = 7
iter = 2998, queue = 5244, heur = -7.0, depth = 7
iter = 2999, queue = 5245, heur = -7.0, depth = 7
iter = 3000, queue = 5247, heur = -7.0, depth = 7
iter = 3001, queue = 5250, heur = -7.0, depth = 7
iter = 3002, queue = 5253, heur = -7.0, depth = 7
iter = 3003, queue = 5252, heur = -7.0, depth = 7
iter = 3004, queue = 5253, heur = -7.0, depth = 8
iter = 3005, queue = 5254, heur = -7.0, depth = 7
iter = 3006, queue = 5257, heur = -7.0, depth = 7
iter = 3007, queue = 5258, heur = -7.0, depth = 7
```

```
iter = 3008, queue = 5259, heur = -7.0, depth = 7
iter = 3009, queue = 5262, heur = -7.0, depth = 7
iter = 3010, queue = 5263, heur = -7.0, depth = 7
iter = 3011, queue = 5266, heur = -7.0, depth = 7
iter = 3012, queue = 5269, heur = -7.0, depth = 8
iter = 3013, queue = 5269, heur = -7.0, depth = 7
iter = 3014, queue = 5272, heur = -7.0, depth = 7
iter = 3015, queue = 5273, heur = -7.0, depth = 7
iter = 3016, queue = 5276, heur = -7.0, depth = 7
iter = 3017, queue = 5279, heur = -7.0, depth = 7
iter = 3018, queue = 5281, heur = -7.0, depth = 7
iter = 3019, queue = 5282, heur = -7.0, depth = 7
iter = 3020, queue = 5285, heur = -7.0, depth = 7
iter = 3021, queue = 5286, heur = -7.0, depth = 7
iter = 3022, queue = 5289, heur = -7.0, depth = 7
iter = 3023, queue = 5290, heur = -7.0, depth = 7
iter = 3024, queue = 5291, heur = -7.0, depth = 7
iter = 3025, queue = 5292, heur = -7.0, depth = 7
iter = 3026, queue = 5293, heur = -7.0, depth = 7
iter = 3027, queue = 5294, heur = -7.0, depth = 8
iter = 3028, queue = 5297, heur = -7.0, depth = 7
iter = 3029, queue = 5298, heur = -7.0, depth = 7
iter = 3030, queue = 5300, heur = -7.0, depth = 7
iter = 3031, queue = 5301, heur = -7.0, depth = 7
iter = 3032, queue = 5302, heur = -7.0, depth = 7
iter = 3033, queue = 5303, heur = -7.0, depth = 7
iter = 3034, queue = 5305, heur = -7.0, depth = 7
iter = 3035, queue = 5305, heur = -7.0, depth = 7
iter = 3036, queue = 5308, heur = -7.0, depth = 7
iter = 3037, queue = 5309, heur = -7.0, depth = 7
iter = 3038, queue = 5312, heur = -7.0, depth = 7
iter = 3039, queue = 5315, heur = -7.0, depth = 7
iter = 3040, queue = 5318, heur = -7.0, depth = 7
iter = 3041, queue = 5319, heur = -7.0, depth = 7
iter = 3042, queue = 5320, heur = -7.0, depth = 7
iter = 3043, queue = 5322, heur = -7.0, depth = 8
iter = 3044, queue = 5324, heur = -7.0, depth = 8
iter = 3045, queue = 5325, heur = -7.0, depth = 7
iter = 3046, queue = 5328, heur = -7.0, depth = 9
iter = 3047, queue = 5331, heur = -7.0, depth = 7
iter = 3048, queue = 5334, heur = -7.0, depth = 8
iter = 3049, queue = 5335, heur = -7.0, depth = 10
iter = 3050, queue = 5337, heur = -7.0, depth = 7
iter = 3051, queue = 5340, heur = -7.0, depth = 7
iter = 3052, queue = 5343, heur = -7.0, depth = 7
iter = 3053, queue = 5346, heur = -7.0, depth = 7
iter = 3054, queue = 5348, heur = -7.0, depth = 8
iter = 3055, queue = 5350, heur = -7.0, depth = 7
iter = 3056, queue = 5351, heur = -7.0, depth = 7
iter = 3057, queue = 5352, heur = -7.0, depth = 7
iter = 3058, queue = 5355, heur = -7.0, depth = 7
iter = 3059, queue = 5358, heur = -7.0, depth = 7
iter = 3060, queue = 5360, heur = -7.0, depth = 7
iter = 3061, queue = 5363, heur = -7.0, depth = 7
iter = 3062, queue = 5365, heur = -7.0, depth = 7
iter = 3063, queue = 5365, heur = -7.0, depth = 7
iter = 3064, queue = 5367, heur = -7.0, depth = 7
iter = 3065, queue = 5368, heur = -7.0, depth = 7
iter = 3066, queue = 5369, heur = -7.0, depth = 7
```

```
iter = 3067, queue = 5371, heur = -7.0, depth = 7
iter = 3068, queue = 5374, heur = -7.0, depth = 7
iter = 3069, queue = 5374, heur = -7.0, depth = 7
iter = 3070, queue = 5377, heur = -7.0, depth = 7
iter = 3071, queue = 5378, heur = -7.0, depth = 7
iter = 3072, queue = 5379, heur = -7.0, depth = 7
iter = 3073, queue = 5381, heur = -7.0, depth = 7
iter = 3074, queue = 5384, heur = -7.0, depth = 7
iter = 3075, queue = 5387, heur = -7.0, depth = 7
iter = 3076, queue = 5388, heur = -7.0, depth = 7
iter = 3077, queue = 5389, heur = -7.0, depth = 7
iter = 3078, queue = 5388, heur = -7.0, depth = 7
iter = 3079, queue = 5389, heur = -7.0, depth = 7
iter = 3080, queue = 5392, heur = -7.0, depth = 7
iter = 3081, queue = 5393, heur = -7.0, depth = 7
iter = 3082, queue = 5394, heur = -7.0, depth = 7
iter = 3083, queue = 5393, heur = -7.0, depth = 7
iter = 3084, queue = 5394, heur = -7.0, depth = 7
iter = 3085, queue = 5393, heur = -7.0, depth = 7
iter = 3086, queue = 5392, heur = -7.0, depth = 7
iter = 3087, queue = 5394, heur = -7.0, depth = 7
iter = 3088, queue = 5395, heur = -7.0, depth = 7
iter = 3089, queue = 5396, heur = -7.0, depth = 7
iter = 3090, queue = 5399, heur = -7.0, depth = 7
iter = 3091, queue = 5400, heur = -7.0, depth = 7
iter = 3092, queue = 5403, heur = -7.0, depth = 7
iter = 3093, queue = 5402, heur = -7.0, depth = 7
iter = 3094, queue = 5405, heur = -7.0, depth = 7
iter = 3095, queue = 5407, heur = -7.0, depth = 8
iter = 3096, queue = 5410, heur = -7.0, depth = 7
iter = 3097, queue = 5413, heur = -7.0, depth = 7
iter = 3098, queue = 5415, heur = -7.0, depth = 7
iter = 3099, queue = 5418, heur = -7.0, depth = 7
iter = 3100, queue = 5420, heur = -7.0, depth = 7
iter = 3101, queue = 5419, heur = -7.0, depth = 7
iter = 3102, queue = 5420, heur = -7.0, depth = 7
iter = 3103, queue = 5421, heur = -7.0, depth = 7
iter = 3104, queue = 5424, heur = -7.0, depth = 7
iter = 3105, queue = 5427, heur = -7.0, depth = 7
iter = 3106, queue = 5428, heur = -7.0, depth = 8
iter = 3107, queue = 5429, heur = -7.0, depth = 7
iter = 3108, queue = 5430, heur = -7.0, depth = 7
iter = 3109, queue = 5432, heur = -7.0, depth = 7
iter = 3110, queue = 5434, heur = -7.0, depth = 7
iter = 3111, queue = 5433, heur = -7.0, depth = 7
iter = 3112, queue = 5434, heur = -7.0, depth = 7
iter = 3113, queue = 5433, heur = -7.0, depth = 8
iter = 3114, queue = 5434, heur = -7.0, depth = 7
iter = 3115, queue = 5434, heur = -7.0, depth = 7
iter = 3116, queue = 5435, heur = -7.0, depth = 7
iter = 3117, queue = 5434, heur = -7.0, depth = 7
iter = 3118, queue = 5436, heur = -7.0, depth = 8
iter = 3119, queue = 5436, heur = -7.0, depth = 7
iter = 3120, queue = 5437, heur = -7.0, depth = 7
iter = 3121, queue = 5438, heur = -7.0, depth = 8
iter = 3122, queue = 5437, heur = -7.0, depth = 7
iter = 3123, queue = 5438, heur = -7.0, depth = 7
iter = 3124, queue = 5439, heur = -7.0, depth = 7
iter = 3125, queue = 5439, heur = -7.0, depth = 8
```

```
iter = 3126, queue = 5440, heur = -7.0, depth = 7
iter = 3127, queue = 5441, heur = -7.0, depth = 7
iter = 3128, queue = 5444, heur = -7.0, depth = 8
iter = 3129, queue = 5444, heur = -7.0, depth = 7
iter = 3130, queue = 5446, heur = -7.0, depth = 7
iter = 3131, queue = 5447, heur = -7.0, depth = 7
iter = 3132, queue = 5448, heur = -7.0, depth = 7
iter = 3133, queue = 5449, heur = -7.0, depth = 8
iter = 3134, queue = 5449, heur = -7.0, depth = 7
iter = 3135, queue = 5452, heur = -7.0, depth = 7
iter = 3136, queue = 5455, heur = -7.0, depth = 8
iter = 3137, queue = 5456, heur = -7.0, depth = 7
iter = 3138, queue = 5459, heur = -7.0, depth = 7
iter = 3139, queue = 5461, heur = -7.0, depth = 8
iter = 3140, queue = 5464, heur = -7.0, depth = 7
iter = 3141, queue = 5466, heur = -7.0, depth = 7
iter = 3142, queue = 5467, heur = -7.0, depth = 7
iter = 3143, queue = 5466, heur = -7.0, depth = 8
iter = 3144, queue = 5466, heur = -7.0, depth = 7
iter = 3145, queue = 5469, heur = -7.0, depth = 7
iter = 3146, queue = 5472, heur = -7.0, depth = 8
iter = 3147, queue = 5473, heur = -7.0, depth = 7
iter = 3148, queue = 5474, heur = -7.0, depth = 7
iter = 3149, queue = 5475, heur = -7.0, depth = 7
iter = 3150, queue = 5478, heur = -7.0, depth = 7
iter = 3151, queue = 5478, heur = -7.0, depth = 7
iter = 3152, queue = 5481, heur = -7.0, depth = 7
iter = 3153, queue = 5482, heur = -7.0, depth = 7
iter = 3154, queue = 5484, heur = -7.0, depth = 7
iter = 3155, queue = 5486, heur = -7.0, depth = 7
iter = 3156, queue = 5487, heur = -7.0, depth = 7
iter = 3157, queue = 5490, heur = -7.0, depth = 8
iter = 3158, queue = 5492, heur = -7.0, depth = 7
iter = 3159, queue = 5492, heur = -7.0, depth = 7
iter = 3160, queue = 5494, heur = -7.0, depth = 7
iter = 3161, queue = 5495, heur = -7.0, depth = 7
iter = 3162, queue = 5496, heur = -7.0, depth = 7
iter = 3163, queue = 5499, heur = -7.0, depth = 7
iter = 3164, queue = 5502, heur = -7.0, depth = 7
iter = 3165, queue = 5505, heur = -7.0, depth = 7
iter = 3166, queue = 5505, heur = -7.0, depth = 7
iter = 3167, queue = 5506, heur = -7.0, depth = 7
iter = 3168, queue = 5506, heur = -7.0, depth = 7
iter = 3169, queue = 5508, heur = -7.0, depth = 7
iter = 3170, queue = 5510, heur = -7.0, depth = 7
iter = 3171, queue = 5511, heur = -7.0, depth = 7
iter = 3172, queue = 5514, heur = -7.0, depth = 7
iter = 3173, queue = 5515, heur = -7.0, depth = 7
iter = 3174, queue = 5516, heur = -7.0, depth = 7
iter = 3175, queue = 5519, heur = -7.0, depth = 8
iter = 3176, queue = 5522, heur = -7.0, depth = 7
iter = 3177, queue = 5521, heur = -7.0, depth = 7
iter = 3178, queue = 5522, heur = -7.0, depth = 7
iter = 3179, queue = 5524, heur = -7.0, depth = 7
iter = 3180, queue = 5525, heur = -7.0, depth = 7
iter = 3181, queue = 5526, heur = -7.0, depth = 7
iter = 3182, queue = 5525, heur = -7.0, depth = 7
iter = 3183, queue = 5528, heur = -7.0, depth = 7
iter = 3184, queue = 5531, heur = -7.0, depth = 7
```

```
iter = 3185, queue = 5532, heur = -7.0, depth = 7
iter = 3186, queue = 5535, heur = -7.0, depth = 7
iter = 3187, queue = 5535, heur = -7.0, depth = 7
iter = 3188, queue = 5538, heur = -7.0, depth = 8
iter = 3189, queue = 5539, heur = -7.0, depth = 7
iter = 3190, queue = 5542, heur = -7.0, depth = 7
iter = 3191, queue = 5543, heur = -7.0, depth = 7
iter = 3192, queue = 5545, heur = -7.0, depth = 7
iter = 3193, queue = 5548, heur = -7.0, depth = 7
iter = 3194, queue = 5549, heur = -7.0, depth = 7
iter = 3195, queue = 5552, heur = -7.0, depth = 7
iter = 3196, queue = 5551, heur = -7.0, depth = 7
iter = 3197, queue = 5550, heur = -7.0, depth = 7
iter = 3198, queue = 5553, heur = -7.0, depth = 7
iter = 3199, queue = 5553, heur = -7.0, depth = 7
iter = 3200, queue = 5554, heur = -7.0, depth = 7
iter = 3201, queue = 5555, heur = -7.0, depth = 7
iter = 3202, queue = 5556, heur = -7.0, depth = 7
iter = 3203, queue = 5557, heur = -7.0, depth = 9
iter = 3204, queue = 5560, heur = -7.0, depth = 9
iter = 3205, queue = 5563, heur = -7.0, depth = 7
iter = 3206, queue = 5566, heur = -7.0, depth = 7
iter = 3207, queue = 5569, heur = -7.0, depth = 9
iter = 3208, queue = 5572, heur = -7.0, depth = 7
iter = 3209, queue = 5571, heur = -7.0, depth = 7
iter = 3210, queue = 5572, heur = -7.0, depth = 7
iter = 3211, queue = 5575, heur = -7.0, depth = 7
iter = 3212, queue = 5576, heur = -7.0, depth = 7
iter = 3213, queue = 5579, heur = -7.0, depth = 7
iter = 3214, queue = 5581, heur = -7.0, depth = 8
iter = 3215, queue = 5584, heur = -7.0, depth = 7
iter = 3216, queue = 5585, heur = -7.0, depth = 7
iter = 3217, queue = 5585, heur = -7.0, depth = 9
iter = 3218, queue = 5588, heur = -7.0, depth = 7
iter = 3219, queue = 5589, heur = -7.0, depth = 7
iter = 3220, queue = 5590, heur = -7.0, depth = 7
iter = 3221, queue = 5591, heur = -7.0, depth = 7
iter = 3222, queue = 5593, heur = -7.0, depth = 7
iter = 3223, queue = 5596, heur = -7.0, depth = 7
iter = 3224, queue = 5599, heur = -7.0, depth = 8
iter = 3225, queue = 5602, heur = -7.0, depth = 8
iter = 3226, queue = 5605, heur = -7.0, depth = 7
iter = 3227, queue = 5606, heur = -7.0, depth = 7
iter = 3228, queue = 5606, heur = -7.0, depth = 7
iter = 3229, queue = 5609, heur = -7.0, depth = 7
iter = 3230, queue = 5609, heur = -7.0, depth = 7
iter = 3231, queue = 5610, heur = -7.0, depth = 8
iter = 3232, queue = 5609, heur = -7.0, depth = 7
iter = 3233, queue = 5612, heur = -7.0, depth = 7
iter = 3234, queue = 5615, heur = -7.0, depth = 7
iter = 3235, queue = 5615, heur = -7.0, depth = 7
iter = 3236, queue = 5616, heur = -7.0, depth = 7
iter = 3237, queue = 5617, heur = -7.0, depth = 7
iter = 3238, queue = 5618, heur = -7.0, depth = 7
iter = 3239, queue = 5617, heur = -7.0, depth = 8
iter = 3240, queue = 5617, heur = -7.0, depth = 7
iter = 3241, queue = 5618, heur = -7.0, depth = 7
iter = 3242, queue = 5619, heur = -7.0, depth = 7
iter = 3243, queue = 5622, heur = -7.0, depth = 7
```

```
iter = 3244, queue = 5622, heur = -7.0, depth = 7
iter = 3245, queue = 5625, heur = -7.0, depth = 7
iter = 3246, queue = 5628, heur = -7.0, depth = 7
iter = 3247, queue = 5631, heur = -7.0, depth = 7
iter = 3248, queue = 5633, heur = -7.0, depth = 7
iter = 3249, queue = 5635, heur = -7.0, depth = 7
iter = 3250, queue = 5636, heur = -7.0, depth = 7
iter = 3251, queue = 5637, heur = -7.0, depth = 7
iter = 3252, queue = 5638, heur = -7.0, depth = 7
iter = 3253, queue = 5638, heur = -7.0, depth = 7
iter = 3254, queue = 5641, heur = -7.0, depth = 7
iter = 3255, queue = 5642, heur = -7.0, depth = 7
iter = 3256, queue = 5642, heur = -7.0, depth = 7
iter = 3257, queue = 5643, heur = -7.0, depth = 7
iter = 3258, queue = 5644, heur = -7.0, depth = 7
iter = 3259, queue = 5647, heur = -7.0, depth = 7
iter = 3260, queue = 5648, heur = -7.0, depth = 7
iter = 3261, queue = 5651, heur = -7.0, depth = 8
iter = 3262, queue = 5653, heur = -7.0, depth = 7
iter = 3263, queue = 5654, heur = -7.0, depth = 7
iter = 3264, queue = 5657, heur = -7.0, depth = 7
iter = 3265, queue = 5658, heur = -7.0, depth = 8
iter = 3266, queue = 5659, heur = -7.0, depth = 7
iter = 3267, queue = 5661, heur = -7.0, depth = 7
iter = 3268, queue = 5664, heur = -7.0, depth = 7
iter = 3269, queue = 5665, heur = -7.0, depth = 7
iter = 3270, queue = 5668, heur = -7.0, depth = 7
iter = 3271, queue = 5671, heur = -7.0, depth = 7
iter = 3272, queue = 5674, heur = -7.0, depth = 7
iter = 3273, queue = 5677, heur = -7.0, depth = 7
iter = 3274, queue = 5680, heur = -7.0, depth = 7
iter = 3275, queue = 5682, heur = -7.0, depth = 7
iter = 3276, queue = 5683, heur = -7.0, depth = 7
iter = 3277, queue = 5684, heur = -7.0, depth = 7
iter = 3278, queue = 5687, heur = -7.0, depth = 7
iter = 3279, queue = 5690, heur = -7.0, depth = 7
iter = 3280, queue = 5693, heur = -7.0, depth = 7
iter = 3281, queue = 5695, heur = -7.0, depth = 7
iter = 3282, queue = 5696, heur = -7.0, depth = 7
iter = 3283, queue = 5699, heur = -7.0, depth = 7
iter = 3284, queue = 5701, heur = -7.0, depth = 7
iter = 3285, queue = 5702, heur = -7.0, depth = 7
iter = 3286, queue = 5705, heur = -7.0, depth = 7
iter = 3287, queue = 5705, heur = -7.0, depth = 7
iter = 3288, queue = 5706, heur = -7.0, depth = 7
iter = 3289, queue = 5709, heur = -7.0, depth = 7
iter = 3290, queue = 5710, heur = -7.0, depth = 7
iter = 3291, queue = 5712, heur = -7.0, depth = 7
iter = 3292, queue = 5713, heur = -7.0, depth = 7
iter = 3293, queue = 5714, heur = -7.0, depth = 7
iter = 3294, queue = 5715, heur = -7.0, depth = 7
iter = 3295, queue = 5718, heur = -7.0, depth = 7
iter = 3296, queue = 5719, heur = -7.0, depth = 7
iter = 3297, queue = 5720, heur = -7.0, depth = 8
iter = 3298, queue = 5721, heur = -7.0, depth = 7
iter = 3299, queue = 5721, heur = -7.0, depth = 7
iter = 3300, queue = 5720, heur = -7.0, depth = 7
iter = 3301, queue = 5722, heur = -7.0, depth = 7
iter = 3302, queue = 5725, heur = -7.0, depth = 7
```

```
iter = 3303, queue = 5728, heur = -7.0, depth = 7
iter = 3304, queue = 5727, heur = -7.0, depth = 7
iter = 3305, queue = 5729, heur = -7.0, depth = 7
iter = 3306, queue = 5732, heur = -7.0, depth = 7
iter = 3307, queue = 5735, heur = -7.0, depth = 7
iter = 3308, queue = 5736, heur = -7.0, depth = 7
iter = 3309, queue = 5737, heur = -7.0, depth = 7
iter = 3310, queue = 5736, heur = -7.0, depth = 7
iter = 3311, queue = 5739, heur = -7.0, depth = 7
iter = 3312, queue = 5739, heur = -7.0, depth = 7
iter = 3313, queue = 5740, heur = -7.0, depth = 7
iter = 3314, queue = 5742, heur = -7.0, depth = 7
iter = 3315, queue = 5745, heur = -7.0, depth = 7
iter = 3316, queue = 5748, heur = -7.0, depth = 7
iter = 3317, queue = 5749, heur = -7.0, depth = 7
iter = 3318, queue = 5751, heur = -7.0, depth = 7
iter = 3319, queue = 5753, heur = -7.0, depth = 7
iter = 3320, queue = 5754, heur = -7.0, depth = 7
iter = 3321, queue = 5754, heur = -7.0, depth = 7
iter = 3322, queue = 5754, heur = -7.0, depth = 8
iter = 3323, queue = 5757, heur = -7.0, depth = 7
iter = 3324, queue = 5757, heur = -7.0, depth = 7
iter = 3325, queue = 5756, heur = -7.0, depth = 7
iter = 3326, queue = 5759, heur = -7.0, depth = 7
iter = 3327, queue = 5762, heur = -7.0, depth = 7
iter = 3328, queue = 5765, heur = -7.0, depth = 7
iter = 3329, queue = 5768, heur = -7.0, depth = 7
iter = 3330, queue = 5768, heur = -7.0, depth = 7
iter = 3331, queue = 5769, heur = -7.0, depth = 7
iter = 3332, queue = 5772, heur = -7.0, depth = 7
iter = 3333, queue = 5773, heur = -7.0, depth = 7
iter = 3334, queue = 5774, heur = -7.0, depth = 7
iter = 3335, queue = 5777, heur = -7.0, depth = 7
iter = 3336, queue = 5778, heur = -7.0, depth = 7
iter = 3337, queue = 5779, heur = -7.0, depth = 7
iter = 3338, queue = 5780, heur = -7.0, depth = 7
iter = 3339, queue = 5783, heur = -7.0, depth = 7
iter = 3340, queue = 5784, heur = -7.0, depth = 7
iter = 3341, queue = 5785, heur = -7.0, depth = 7
iter = 3342, queue = 5786, heur = -7.0, depth = 7
iter = 3343, queue = 5787, heur = -7.0, depth = 7
iter = 3344, queue = 5790, heur = -7.0, depth = 7
iter = 3345, queue = 5793, heur = -7.0, depth = 7
iter = 3346, queue = 5796, heur = -7.0, depth = 7
iter = 3347, queue = 5797, heur = -7.0, depth = 7
iter = 3348, queue = 5800, heur = -7.0, depth = 7
iter = 3349, queue = 5803, heur = -7.0, depth = 7
iter = 3350, queue = 5802, heur = -7.0, depth = 7
iter = 3351, queue = 5803, heur = -7.0, depth = 7
iter = 3352, queue = 5804, heur = -7.0, depth = 7
iter = 3353, queue = 5806, heur = -7.0, depth = 7
iter = 3354, queue = 5809, heur = -7.0, depth = 7
iter = 3355, queue = 5812, heur = -7.0, depth = 7
iter = 3356, queue = 5815, heur = -7.0, depth = 7
iter = 3357, queue = 5816, heur = -7.0, depth = 7
iter = 3358, queue = 5817, heur = -7.0, depth = 7
iter = 3359, queue = 5816, heur = -7.0, depth = 7
iter = 3360, queue = 5819, heur = -7.0, depth = 7
iter = 3361, queue = 5821, heur = -7.0, depth = 7
```

```
iter = 3362, queue = 5824, heur = -7.0, depth = 7
iter = 3363, queue = 5826, heur = -7.0, depth = 7
iter = 3364, queue = 5828, heur = -7.0, depth = 7
iter = 3365, queue = 5829, heur = -7.0, depth = 7
iter = 3366, queue = 5828, heur = -7.0, depth = 7
iter = 3367, queue = 5827, heur = -7.0, depth = 7
iter = 3368, queue = 5828, heur = -7.0, depth = 7
iter = 3369, queue = 5831, heur = -7.0, depth = 7
iter = 3370, queue = 5830, heur = -7.0, depth = 7
iter = 3371, queue = 5833, heur = -7.0, depth = 7
iter = 3372, queue = 5836, heur = -7.0, depth = 7
iter = 3373, queue = 5836, heur = -7.0, depth = 7
iter = 3374, queue = 5837, heur = -7.0, depth = 7
iter = 3375, queue = 5838, heur = -7.0, depth = 7
iter = 3376, queue = 5839, heur = -7.0, depth = 7
iter = 3377, queue = 5840, heur = -7.0, depth = 7
iter = 3378, queue = 5841, heur = -7.0, depth = 7
iter = 3379, queue = 5842, heur = -7.0, depth = 7
iter = 3380, queue = 5845, heur = -7.0, depth = 7
iter = 3381, queue = 5845, heur = -7.0, depth = 7
iter = 3382, queue = 5848, heur = -7.0, depth = 7
iter = 3383, queue = 5849, heur = -7.0, depth = 7
iter = 3384, queue = 5852, heur = -7.0, depth = 7
iter = 3385, queue = 5854, heur = -7.0, depth = 7
iter = 3386, queue = 5855, heur = -7.0, depth = 7
iter = 3387, queue = 5855, heur = -7.0, depth = 7
iter = 3388, queue = 5854, heur = -7.0, depth = 7
iter = 3389, queue = 5855, heur = -7.0, depth = 7
iter = 3390, queue = 5854, heur = -7.0, depth = 7
iter = 3391, queue = 5853, heur = -7.0, depth = 7
iter = 3392, queue = 5854, heur = -7.0, depth = 7
iter = 3393, queue = 5856, heur = -7.0, depth = 7
iter = 3394, queue = 5859, heur = -7.0, depth = 7
iter = 3395, queue = 5862, heur = -7.0, depth = 7
iter = 3396, queue = 5865, heur = -7.0, depth = 7
iter = 3397, queue = 5866, heur = -7.0, depth = 7
iter = 3398, queue = 5868, heur = -7.0, depth = 7
iter = 3399, queue = 5867, heur = -7.0, depth = 7
iter = 3400, queue = 5869, heur = -7.0, depth = 8
iter = 3401, queue = 5872, heur = -7.0, depth = 7
iter = 3402, queue = 5873, heur = -7.0, depth = 7
iter = 3403, queue = 5872, heur = -7.0, depth = 7
iter = 3404, queue = 5875, heur = -7.0, depth = 7
iter = 3405, queue = 5878, heur = -7.0, depth = 7
iter = 3406, queue = 5879, heur = -7.0, depth = 7
iter = 3407, queue = 5880, heur = -7.0, depth = 7
iter = 3408, queue = 5881, heur = -7.0, depth = 7
iter = 3409, queue = 5882, heur = -7.0, depth = 7
iter = 3410, queue = 5885, heur = -7.0, depth = 8
iter = 3411, queue = 5886, heur = -7.0, depth = 7
iter = 3412, queue = 5888, heur = -7.0, depth = 7
iter = 3413, queue = 5889, heur = -7.0, depth = 8
iter = 3414, queue = 5889, heur = -7.0, depth = 7
iter = 3415, queue = 5891, heur = -7.0, depth = 8
iter = 3416, queue = 5892, heur = -7.0, depth = 8
iter = 3417, queue = 5894, heur = -7.0, depth = 8
iter = 3418, queue = 5895, heur = -7.0, depth = 7
iter = 3419, queue = 5896, heur = -7.0, depth = 7
iter = 3420, queue = 5897, heur = -7.0, depth = 7
```

```
iter = 3421, queue = 5900, heur = -7.0, depth = 7
iter = 3422, queue = 5903, heur = -7.0, depth = 7
iter = 3423, queue = 5902, heur = -7.0, depth = 7
iter = 3424, queue = 5902, heur = -7.0, depth = 7
iter = 3425, queue = 5905, heur = -7.0, depth = 7
iter = 3426, queue = 5908, heur = -7.0, depth = 7
iter = 3427, queue = 5911, heur = -7.0, depth = 7
iter = 3428, queue = 5914, heur = -7.0, depth = 7
iter = 3429, queue = 5915, heur = -7.0, depth = 7
iter = 3430, queue = 5915, heur = -7.0, depth = 7
iter = 3431, queue = 5915, heur = -7.0, depth = 8
iter = 3432, queue = 5918, heur = -7.0, depth = 7
iter = 3433, queue = 5920, heur = -7.0, depth = 7
iter = 3434, queue = 5922, heur = -7.0, depth = 9
iter = 3435, queue = 5925, heur = -7.0, depth = 7
iter = 3436, queue = 5928, heur = -7.0, depth = 7
iter = 3437, queue = 5929, heur = -7.0, depth = 7
iter = 3438, queue = 5932, heur = -7.0, depth = 8
iter = 3439, queue = 5931, heur = -7.0, depth = 7
iter = 3440, queue = 5930, heur = -7.0, depth = 7
iter = 3441, queue = 5931, heur = -7.0, depth = 7
iter = 3442, queue = 5934, heur = -7.0, depth = 7
iter = 3443, queue = 5936, heur = -7.0, depth = 7
iter = 3444, queue = 5939, heur = -7.0, depth = 7
iter = 3445, queue = 5941, heur = -7.0, depth = 7
iter = 3446, queue = 5943, heur = -7.0, depth = 7
iter = 3447, queue = 5946, heur = -7.0, depth = 7
iter = 3448, queue = 5946, heur = -7.0, depth = 7
iter = 3449, queue = 5945, heur = -7.0, depth = 7
iter = 3450, queue = 5946, heur = -7.0, depth = 7
iter = 3451, queue = 5947, heur = -7.0, depth = 7
iter = 3452, queue = 5948, heur = -7.0, depth = 7
iter = 3453, queue = 5951, heur = -7.0, depth = 8
iter = 3454, queue = 5954, heur = -7.0, depth = 7
iter = 3455, queue = 5955, heur = -7.0, depth = 7
iter = 3456, queue = 5958, heur = -7.0, depth = 9
iter = 3457, queue = 5961, heur = -7.0, depth = 7
iter = 3458, queue = 5963, heur = -7.0, depth = 7
iter = 3459, queue = 5966, heur = -7.0, depth = 7
iter = 3460, queue = 5967, heur = -7.0, depth = 7
iter = 3461, queue = 5970, heur = -7.0, depth = 7
iter = 3462, queue = 5971, heur = -7.0, depth = 7
iter = 3463, queue = 5972, heur = -7.0, depth = 7
iter = 3464, queue = 5971, heur = -7.0, depth = 7
iter = 3465, queue = 5974, heur = -7.0, depth = 7
iter = 3466, queue = 5975, heur = -7.0, depth = 7
iter = 3467, queue = 5978, heur = -7.0, depth = 8
iter = 3468, queue = 5981, heur = -7.0, depth = 7
iter = 3469, queue = 5984, heur = -7.0, depth = 7
iter = 3470, queue = 5985, heur = -7.0, depth = 8
iter = 3471, queue = 5986, heur = -7.0, depth = 7
iter = 3472, queue = 5987, heur = -7.0, depth = 7
iter = 3473, queue = 5989, heur = -7.0, depth = 7
iter = 3474, queue = 5992, heur = -7.0, depth = 7
iter = 3475, queue = 5995, heur = -7.0, depth = 7
iter = 3476, queue = 5996, heur = -7.0, depth = 7
iter = 3477, queue = 5999, heur = -7.0, depth = 7
iter = 3478, queue = 6000, heur = -7.0, depth = 7
iter = 3479, queue = 6002, heur = -7.0, depth = 7
```

```
iter = 3480, queue = 6004, heur = -7.0, depth = 7
iter = 3481, queue = 6004, heur = -7.0, depth = 7
iter = 3482, queue = 6005, heur = -7.0, depth = 7
iter = 3483, queue = 6007, heur = -7.0, depth = 8
iter = 3484, queue = 6010, heur = -7.0, depth = 8
iter = 3485, queue = 6012, heur = -7.0, depth = 7
iter = 3486, queue = 6014, heur = -7.0, depth = 8
iter = 3487, queue = 6017, heur = -7.0, depth = 7
iter = 3488, queue = 6020, heur = -7.0, depth = 7
iter = 3489, queue = 6022, heur = -7.0, depth = 7
iter = 3490, queue = 6023, heur = -7.0, depth = 7
iter = 3491, queue = 6026, heur = -7.0, depth = 7
iter = 3492, queue = 6027, heur = -7.0, depth = 7
iter = 3493, queue = 6028, heur = -7.0, depth = 7
iter = 3494, queue = 6029, heur = -7.0, depth = 7
iter = 3495, queue = 6032, heur = -7.0, depth = 7
iter = 3496, queue = 6033, heur = -7.0, depth = 7
iter = 3497, queue = 6034, heur = -7.0, depth = 7
iter = 3498, queue = 6035, heur = -7.0, depth = 7
iter = 3499, queue = 6036, heur = -7.0, depth = 7
iter = 3500, queue = 6038, heur = -7.0, depth = 8
iter = 3501, queue = 6039, heur = -7.0, depth = 8
iter = 3502, queue = 6040, heur = -7.0, depth = 7
iter = 3503, queue = 6040, heur = -7.0, depth = 7
iter = 3504, queue = 6042, heur = -7.0, depth = 7
iter = 3505, queue = 6043, heur = -7.0, depth = 7
iter = 3506, queue = 6044, heur = -7.0, depth = 7
iter = 3507, queue = 6046, heur = -7.0, depth = 7
iter = 3508, queue = 6049, heur = -7.0, depth = 8
iter = 3509, queue = 6052, heur = -7.0, depth = 8
iter = 3510, queue = 6053, heur = -7.0, depth = 7
iter = 3511, queue = 6054, heur = -7.0, depth = 8
iter = 3512, queue = 6057, heur = -7.0, depth = 7
iter = 3513, queue = 6057, heur = -7.0, depth = 7
iter = 3514, queue = 6057, heur = -7.0, depth = 7
iter = 3515, queue = 6058, heur = -7.0, depth = 7
iter = 3516, queue = 6061, heur = -7.0, depth = 7
iter = 3517, queue = 6062, heur = -7.0, depth = 8
iter = 3518, queue = 6064, heur = -7.0, depth = 7
iter = 3519, queue = 6064, heur = -7.0, depth = 7
iter = 3520, queue = 6064, heur = -7.0, depth = 7
iter = 3521, queue = 6063, heur = -7.0, depth = 7
iter = 3522, queue = 6066, heur = -7.0, depth = 7
iter = 3523, queue = 6068, heur = -7.0, depth = 7
iter = 3524, queue = 6069, heur = -7.0, depth = 7
iter = 3525, queue = 6068, heur = -7.0, depth = 8
iter = 3526, queue = 6069, heur = -7.0, depth = 7
iter = 3527, queue = 6070, heur = -7.0, depth = 7
iter = 3528, queue = 6071, heur = -7.0, depth = 8
iter = 3529, queue = 6072, heur = -7.0, depth = 7
iter = 3530, queue = 6075, heur = -7.0, depth = 7
iter = 3531, queue = 6077, heur = -7.0, depth = 9
iter = 3532, queue = 6076, heur = -7.0, depth = 7
iter = 3533, queue = 6077, heur = -7.0, depth = 7
iter = 3534, queue = 6078, heur = -7.0, depth = 7
iter = 3535, queue = 6081, heur = -7.0, depth = 7
iter = 3536, queue = 6080, heur = -7.0, depth = 7
iter = 3537, queue = 6083, heur = -7.0, depth = 7
iter = 3538, queue = 6084, heur = -7.0, depth = 7
```

```
iter = 3539, queue = 6086, heur = -7.0, depth = 7
iter = 3540, queue = 6087, heur = -7.0, depth = 8
iter = 3541, queue = 6088, heur = -7.0, depth = 7
iter = 3542, queue = 6090, heur = -7.0, depth = 7
iter = 3543, queue = 6093, heur = -7.0, depth = 7
iter = 3544, queue = 6094, heur = -7.0, depth = 7
iter = 3545, queue = 6095, heur = -7.0, depth = 7
iter = 3546, queue = 6097, heur = -7.0, depth = 7
iter = 3547, queue = 6098, heur = -7.0, depth = 7
iter = 3548, queue = 6098, heur = -7.0, depth = 7
iter = 3549, queue = 6101, heur = -7.0, depth = 7
iter = 3550, queue = 6103, heur = -7.0, depth = 7
iter = 3551, queue = 6104, heur = -7.0, depth = 7
iter = 3552, queue = 6106, heur = -7.0, depth = 7
iter = 3553, queue = 6109, heur = -7.0, depth = 7
iter = 3554, queue = 6108, heur = -7.0, depth = 7
iter = 3555, queue = 6111, heur = -7.0, depth = 7
iter = 3556, queue = 6111, heur = -7.0, depth = 7
iter = 3557, queue = 6113, heur = -7.0, depth = 7
iter = 3558, queue = 6114, heur = -7.0, depth = 7
iter = 3559, queue = 6117, heur = -7.0, depth = 7
iter = 3560, queue = 6118, heur = -7.0, depth = 7
iter = 3561, queue = 6117, heur = -7.0, depth = 7
iter = 3562, queue = 6116, heur = -7.0, depth = 7
iter = 3563, queue = 6117, heur = -7.0, depth = 7
iter = 3564, queue = 6119, heur = -7.0, depth = 7
iter = 3565, queue = 6120, heur = -7.0, depth = 7
iter = 3566, queue = 6121, heur = -7.0, depth = 7
iter = 3567, queue = 6122, heur = -7.0, depth = 7
iter = 3568, queue = 6123, heur = -7.0, depth = 8
iter = 3569, queue = 6123, heur = -7.0, depth = 7
iter = 3570, queue = 6123, heur = -7.0, depth = 8
iter = 3571, queue = 6122, heur = -7.0, depth = 7
iter = 3572, queue = 6125, heur = -7.0, depth = 7
iter = 3573, queue = 6128, heur = -7.0, depth = 8
iter = 3574, queue = 6127, heur = -7.0, depth = 7
iter = 3575, queue = 6128, heur = -7.0, depth = 7
iter = 3576, queue = 6131, heur = -7.0, depth = 7
iter = 3577, queue = 6133, heur = -7.0, depth = 8
iter = 3578, queue = 6133, heur = -7.0, depth = 7
iter = 3579, queue = 6136, heur = -7.0, depth = 7
iter = 3580, queue = 6136, heur = -7.0, depth = 7
iter = 3581, queue = 6135, heur = -7.0, depth = 7
iter = 3582, queue = 6136, heur = -7.0, depth = 7
iter = 3583, queue = 6139, heur = -7.0, depth = 7
iter = 3584, queue = 6142, heur = -7.0, depth = 8
iter = 3585, queue = 6142, heur = -7.0, depth = 7
iter = 3586, queue = 6143, heur = -7.0, depth = 7
iter = 3587, queue = 6143, heur = -7.0, depth = 7
iter = 3588, queue = 6144, heur = -7.0, depth = 7
iter = 3589, queue = 6143, heur = -7.0, depth = 7
iter = 3590, queue = 6145, heur = -7.0, depth = 7
iter = 3591, queue = 6144, heur = -7.0, depth = 7
iter = 3592, queue = 6147, heur = -7.0, depth = 7
iter = 3593, queue = 6148, heur = -7.0, depth = 7
iter = 3594, queue = 6150, heur = -7.0, depth = 7
iter = 3595, queue = 6152, heur = -7.0, depth = 7
iter = 3596, queue = 6154, heur = -7.0, depth = 7
iter = 3597, queue = 6155, heur = -7.0, depth = 8
```

```
iter = 3598, queue = 6156, heur = -7.0, depth = 7
iter = 3599, queue = 6156, heur = -7.0, depth = 7
iter = 3600, queue = 6157, heur = -7.0, depth = 7
iter = 3601, queue = 6159, heur = -7.0, depth = 7
iter = 3602, queue = 6160, heur = -7.0, depth = 7
iter = 3603, queue = 6163, heur = -7.0, depth = 7
iter = 3604, queue = 6164, heur = -7.0, depth = 7
iter = 3605, queue = 6165, heur = -7.0, depth = 7
iter = 3606, queue = 6166, heur = -7.0, depth = 8
iter = 3607, queue = 6169, heur = -7.0, depth = 8
iter = 3608, queue = 6170, heur = -7.0, depth = 7
iter = 3609, queue = 6171, heur = -7.0, depth = 7
iter = 3610, queue = 6170, heur = -7.0, depth = 8
iter = 3611, queue = 6171, heur = -7.0, depth = 7
iter = 3612, queue = 6174, heur = -7.0, depth = 7
iter = 3613, queue = 6175, heur = -7.0, depth = 7
iter = 3614, queue = 6176, heur = -7.0, depth = 7
iter = 3615, queue = 6177, heur = -7.0, depth = 7
iter = 3616, queue = 6180, heur = -7.0, depth = 7
iter = 3617, queue = 6181, heur = -7.0, depth = 7
iter = 3618, queue = 6180, heur = -7.0, depth = 7
iter = 3619, queue = 6183, heur = -7.0, depth = 8
iter = 3620, queue = 6184, heur = -7.0, depth = 7
iter = 3621, queue = 6185, heur = -7.0, depth = 8
iter = 3622, queue = 6186, heur = -7.0, depth = 7
iter = 3623, queue = 6189, heur = -7.0, depth = 7
iter = 3624, queue = 6190, heur = -7.0, depth = 8
iter = 3625, queue = 6192, heur = -7.0, depth = 8
iter = 3626, queue = 6195, heur = -7.0, depth = 7
iter = 3627, queue = 6197, heur = -7.0, depth = 7
iter = 3628, queue = 6200, heur = -7.0, depth = 7
iter = 3629, queue = 6201, heur = -7.0, depth = 7
iter = 3630, queue = 6202, heur = -7.0, depth = 7
iter = 3631, queue = 6203, heur = -7.0, depth = 7
iter = 3632, queue = 6206, heur = -7.0, depth = 7
iter = 3633, queue = 6207, heur = -7.0, depth = 7
iter = 3634, queue = 6209, heur = -7.0, depth = 9
iter = 3635, queue = 6212, heur = -7.0, depth = 7
iter = 3636, queue = 6215, heur = -7.0, depth = 7
iter = 3637, queue = 6216, heur = -7.0, depth = 7
iter = 3638, queue = 6217, heur = -7.0, depth = 9
iter = 3639, queue = 6218, heur = -7.0, depth = 7
iter = 3640, queue = 6219, heur = -7.0, depth = 7
iter = 3641, queue = 6222, heur = -7.0, depth = 9
iter = 3642, queue = 6223, heur = -7.0, depth = 7
iter = 3643, queue = 6224, heur = -7.0, depth = 7
iter = 3644, queue = 6227, heur = -7.0, depth = 8
iter = 3645, queue = 6230, heur = -7.0, depth = 7
iter = 3646, queue = 6231, heur = -7.0, depth = 7
iter = 3647, queue = 6232, heur = -7.0, depth = 7
iter = 3648, queue = 6235, heur = -7.0, depth = 7
iter = 3649, queue = 6238, heur = -7.0, depth = 7
iter = 3650, queue = 6239, heur = -7.0, depth = 7
iter = 3651, queue = 6240, heur = -7.0, depth = 9
iter = 3652, queue = 6241, heur = -7.0, depth = 7
iter = 3653, queue = 6242, heur = -7.0, depth = 7
iter = 3654, queue = 6243, heur = -7.0, depth = 7
iter = 3655, queue = 6244, heur = -7.0, depth = 7
iter = 3656, queue = 6245, heur = -7.0, depth = 7
```

```
iter = 3657, queue = 6248, heur = -7.0, depth = 7
iter = 3658, queue = 6249, heur = -7.0, depth = 8
iter = 3659, queue = 6250, heur = -7.0, depth = 7
iter = 3660, queue = 6252, heur = -7.0, depth = 7
iter = 3661, queue = 6255, heur = -7.0, depth = 7
iter = 3662, queue = 6256, heur = -7.0, depth = 7
iter = 3663, queue = 6255, heur = -7.0, depth = 8
iter = 3664, queue = 6255, heur = -7.0, depth = 7
iter = 3665, queue = 6255, heur = -7.0, depth = 7
iter = 3666, queue = 6256, heur = -7.0, depth = 8
iter = 3667, queue = 6258, heur = -7.0, depth = 7
iter = 3668, queue = 6261, heur = -7.0, depth = 7
iter = 3669, queue = 6262, heur = -7.0, depth = 7
iter = 3670, queue = 6265, heur = -7.0, depth = 8
iter = 3671, queue = 6268, heur = -7.0, depth = 8
iter = 3672, queue = 6270, heur = -7.0, depth = 9
iter = 3673, queue = 6273, heur = -7.0, depth = 8
iter = 3674, queue = 6276, heur = -7.0, depth = 7
iter = 3675, queue = 6277, heur = -7.0, depth = 7
iter = 3676, queue = 6278, heur = -7.0, depth = 7
iter = 3677, queue = 6277, heur = -7.0, depth = 7
iter = 3678, queue = 6280, heur = -7.0, depth = 9
iter = 3679, queue = 6282, heur = -7.0, depth = 7
iter = 3680, queue = 6282, heur = -7.0, depth = 7
iter = 3681, queue = 6282, heur = -7.0, depth = 9
iter = 3682, queue = 6285, heur = -7.0, depth = 7
iter = 3683, queue = 6287, heur = -7.0, depth = 7
iter = 3684, queue = 6289, heur = -7.0, depth = 7
iter = 3685, queue = 6288, heur = -7.0, depth = 7
iter = 3686, queue = 6289, heur = -7.0, depth = 7
iter = 3687, queue = 6289, heur = -7.0, depth = 7
iter = 3688, queue = 6292, heur = -7.0, depth = 7
iter = 3689, queue = 6295, heur = -7.0, depth = 7
iter = 3690, queue = 6298, heur = -7.0, depth = 7
iter = 3691, queue = 6301, heur = -7.0, depth = 7
iter = 3692, queue = 6304, heur = -7.0, depth = 7
iter = 3693, queue = 6305, heur = -7.0, depth = 7
iter = 3694, queue = 6306, heur = -7.0, depth = 7
iter = 3695, queue = 6307, heur = -7.0, depth = 7
iter = 3696, queue = 6308, heur = -7.0, depth = 7
iter = 3697, queue = 6311, heur = -7.0, depth = 7
iter = 3698, queue = 6313, heur = -7.0, depth = 7
iter = 3699, queue = 6314, heur = -7.0, depth = 7
iter = 3700, queue = 6314, heur = -7.0, depth = 7
iter = 3701, queue = 6317, heur = -7.0, depth = 7
iter = 3702, queue = 6320, heur = -7.0, depth = 7
iter = 3703, queue = 6323, heur = -7.0, depth = 7
iter = 3704, queue = 6324, heur = -7.0, depth = 7
iter = 3705, queue = 6325, heur = -7.0, depth = 7
iter = 3706, queue = 6328, heur = -7.0, depth = 7
iter = 3707, queue = 6329, heur = -7.0, depth = 7
iter = 3708, queue = 6330, heur = -7.0, depth = 7
iter = 3709, queue = 6332, heur = -7.0, depth = 7
iter = 3710, queue = 6333, heur = -7.0, depth = 7
iter = 3711, queue = 6335, heur = -7.0, depth = 7
iter = 3712, queue = 6336, heur = -7.0, depth = 7
iter = 3713, queue = 6336, heur = -7.0, depth = 7
iter = 3714, queue = 6339, heur = -7.0, depth = 7
iter = 3715, queue = 6338, heur = -7.0, depth = 7
```

```
iter = 3716, queue = 6338, heur = -7.0, depth = 7
iter = 3717, queue = 6340, heur = -7.0, depth = 7
iter = 3718, queue = 6342, heur = -7.0, depth = 7
iter = 3719, queue = 6345, heur = -7.0, depth = 7
iter = 3720, queue = 6347, heur = -7.0, depth = 7
iter = 3721, queue = 6348, heur = -7.0, depth = 7
iter = 3722, queue = 6349, heur = -7.0, depth = 8
iter = 3723, queue = 6350, heur = -7.0, depth = 7
iter = 3724, queue = 6351, heur = -7.0, depth = 7
iter = 3725, queue = 6352, heur = -7.0, depth = 7
iter = 3726, queue = 6353, heur = -7.0, depth = 7
iter = 3727, queue = 6356, heur = -7.0, depth = 7
iter = 3728, queue = 6357, heur = -7.0, depth = 7
iter = 3729, queue = 6358, heur = -7.0, depth = 7
iter = 3730, queue = 6359, heur = -7.0, depth = 7
iter = 3731, queue = 6360, heur = -7.0, depth = 7
iter = 3732, queue = 6361, heur = -7.0, depth = 7
iter = 3733, queue = 6362, heur = -7.0, depth = 7
iter = 3734, queue = 6365, heur = -7.0, depth = 7
iter = 3735, queue = 6366, heur = -7.0, depth = 7
iter = 3736, queue = 6367, heur = -7.0, depth = 7
iter = 3737, queue = 6368, heur = -7.0, depth = 7
iter = 3738, queue = 6371, heur = -7.0, depth = 7
iter = 3739, queue = 6371, heur = -7.0, depth = 7
iter = 3740, queue = 6372, heur = -7.0, depth = 7
iter = 3741, queue = 6373, heur = -7.0, depth = 7
iter = 3742, queue = 6373, heur = -7.0, depth = 7
iter = 3743, queue = 6376, heur = -7.0, depth = 7
iter = 3744, queue = 6377, heur = -7.0, depth = 7
iter = 3745, queue = 6378, heur = -7.0, depth = 7
iter = 3746, queue = 6380, heur = -7.0, depth = 7
iter = 3747, queue = 6383, heur = -7.0, depth = 7
iter = 3748, queue = 6384, heur = -7.0, depth = 7
iter = 3749, queue = 6383, heur = -7.0, depth = 7
iter = 3750, queue = 6385, heur = -7.0, depth = 7
iter = 3751, queue = 6386, heur = -7.0, depth = 7
iter = 3752, queue = 6389, heur = -7.0, depth = 7
iter = 3753, queue = 6388, heur = -7.0, depth = 7
iter = 3754, queue = 6389, heur = -7.0, depth = 7
iter = 3755, queue = 6392, heur = -7.0, depth = 7
iter = 3756, queue = 6393, heur = -7.0, depth = 7
iter = 3757, queue = 6393, heur = -7.0, depth = 7
iter = 3758, queue = 6395, heur = -7.0, depth = 7
iter = 3759, queue = 6396, heur = -7.0, depth = 7
iter = 3760, queue = 6397, heur = -7.0, depth = 8
iter = 3761, queue = 6400, heur = -7.0, depth = 7
iter = 3762, queue = 6401, heur = -7.0, depth = 9
iter = 3763, queue = 6404, heur = -7.0, depth = 7
iter = 3764, queue = 6407, heur = -7.0, depth = 7
iter = 3765, queue = 6410, heur = -7.0, depth = 7
iter = 3766, queue = 6413, heur = -7.0, depth = 7
iter = 3767, queue = 6416, heur = -7.0, depth = 7
iter = 3768, queue = 6417, heur = -7.0, depth = 7
iter = 3769, queue = 6420, heur = -7.0, depth = 7
iter = 3770, queue = 6420, heur = -7.0, depth = 7
iter = 3771, queue = 6419, heur = -7.0, depth = 7
iter = 3772, queue = 6420, heur = -7.0, depth = 7
iter = 3773, queue = 6420, heur = -7.0, depth = 7
iter = 3774, queue = 6423, heur = -7.0, depth = 7
```

```
iter = 3775, queue = 6426, heur = -7.0, depth = 7
iter = 3776, queue = 6426, heur = -7.0, depth = 7
iter = 3777, queue = 6428, heur = -7.0, depth = 7
iter = 3778, queue = 6429, heur = -7.0, depth = 7
iter = 3779, queue = 6428, heur = -7.0, depth = 7
iter = 3780, queue = 6430, heur = -7.0, depth = 7
iter = 3781, queue = 6429, heur = -7.0, depth = 7
iter = 3782, queue = 6431, heur = -7.0, depth = 7
iter = 3783, queue = 6434, heur = -7.0, depth = 7
iter = 3784, queue = 6436, heur = -7.0, depth = 7
iter = 3785, queue = 6435, heur = -7.0, depth = 7
iter = 3786, queue = 6438, heur = -7.0, depth = 7
iter = 3787, queue = 6438, heur = -7.0, depth = 7
iter = 3788, queue = 6439, heur = -7.0, depth = 7
iter = 3789, queue = 6440, heur = -7.0, depth = 8
iter = 3790, queue = 6443, heur = -7.0, depth = 7
iter = 3791, queue = 6443, heur = -7.0, depth = 7
iter = 3792, queue = 6446, heur = -7.0, depth = 7
iter = 3793, queue = 6447, heur = -7.0, depth = 7
iter = 3794, queue = 6448, heur = -7.0, depth = 7
iter = 3795, queue = 6449, heur = -7.0, depth = 8
iter = 3796, queue = 6450, heur = -7.0, depth = 7
iter = 3797, queue = 6453, heur = -7.0, depth = 7
iter = 3798, queue = 6454, heur = -7.0, depth = 7
iter = 3799, queue = 6457, heur = -7.0, depth = 8
iter = 3800, queue = 6459, heur = -7.0, depth = 7
iter = 3801, queue = 6460, heur = -7.0, depth = 7
iter = 3802, queue = 6461, heur = -7.0, depth = 7
iter = 3803, queue = 6461, heur = -7.0, depth = 7
iter = 3804, queue = 6462, heur = -7.0, depth = 7
iter = 3805, queue = 6465, heur = -7.0, depth = 7
iter = 3806, queue = 6468, heur = -7.0, depth = 7
iter = 3807, queue = 6470, heur = -7.0, depth = 7
iter = 3808, queue = 6473, heur = -7.0, depth = 7
iter = 3809, queue = 6472, heur = -7.0, depth = 7
iter = 3810, queue = 6473, heur = -7.0, depth = 7
iter = 3811, queue = 6476, heur = -7.0, depth = 7
iter = 3812, queue = 6478, heur = -7.0, depth = 7
iter = 3813, queue = 6479, heur = -7.0, depth = 7
iter = 3814, queue = 6480, heur = -7.0, depth = 7
iter = 3815, queue = 6481, heur = -7.0, depth = 7
iter = 3816, queue = 6483, heur = -7.0, depth = 7
iter = 3817, queue = 6486, heur = -7.0, depth = 7
iter = 3818, queue = 6489, heur = -7.0, depth = 7
iter = 3819, queue = 6490, heur = -7.0, depth = 7
iter = 3820, queue = 6493, heur = -7.0, depth = 7
iter = 3821, queue = 6496, heur = -7.0, depth = 7
iter = 3822, queue = 6497, heur = -7.0, depth = 7
iter = 3823, queue = 6499, heur = -7.0, depth = 7
iter = 3824, queue = 6502, heur = -7.0, depth = 7
iter = 3825, queue = 6503, heur = -7.0, depth = 7
iter = 3826, queue = 6506, heur = -7.0, depth = 7
iter = 3827, queue = 6508, heur = -7.0, depth = 7
iter = 3828, queue = 6511, heur = -7.0, depth = 7
iter = 3829, queue = 6512, heur = -7.0, depth = 7
iter = 3830, queue = 6513, heur = -7.0, depth = 7
iter = 3831, queue = 6513, heur = -7.0, depth = 7
iter = 3832, queue = 6515, heur = -7.0, depth = 7
iter = 3833, queue = 6517, heur = -7.0, depth = 7
```

```
iter = 3834, queue = 6520, heur = -7.0, depth = 7
iter = 3835, queue = 6520, heur = -7.0, depth = 8
iter = 3836, queue = 6519, heur = -7.0, depth = 7
iter = 3837, queue = 6520, heur = -7.0, depth = 7
iter = 3838, queue = 6522, heur = -7.0, depth = 7
iter = 3839, queue = 6523, heur = -7.0, depth = 7
iter = 3840, queue = 6525, heur = -7.0, depth = 7
iter = 3841, queue = 6526, heur = -7.0, depth = 7
iter = 3842, queue = 6526, heur = -7.0, depth = 7
iter = 3843, queue = 6525, heur = -7.0, depth = 7
iter = 3844, queue = 6525, heur = -7.0, depth = 7
iter = 3845, queue = 6527, heur = -7.0, depth = 9
iter = 3846, queue = 6526, heur = -7.0, depth = 8
iter = 3847, queue = 6528, heur = -7.0, depth = 7
iter = 3848, queue = 6530, heur = -7.0, depth = 7
iter = 3849, queue = 6530, heur = -7.0, depth = 8
iter = 3850, queue = 6529, heur = -7.0, depth = 7
iter = 3851, queue = 6530, heur = -7.0, depth = 7
iter = 3852, queue = 6531, heur = -7.0, depth = 7
iter = 3853, queue = 6532, heur = -7.0, depth = 8
iter = 3854, queue = 6532, heur = -7.0, depth = 8
iter = 3855, queue = 6534, heur = -7.0, depth = 7
iter = 3856, queue = 6533, heur = -7.0, depth = 9
iter = 3857, queue = 6535, heur = -7.0, depth = 7
iter = 3858, queue = 6538, heur = -7.0, depth = 8
iter = 3859, queue = 6540, heur = -7.0, depth = 7
iter = 3860, queue = 6541, heur = -7.0, depth = 7
iter = 3861, queue = 6542, heur = -7.0, depth = 7
iter = 3862, queue = 6543, heur = -7.0, depth = 8
iter = 3863, queue = 6544, heur = -7.0, depth = 7
iter = 3864, queue = 6545, heur = -7.0, depth = 7
iter = 3865, queue = 6546, heur = -7.0, depth = 7
iter = 3866, queue = 6549, heur = -7.0, depth = 7
iter = 3867, queue = 6550, heur = -7.0, depth = 7
iter = 3868, queue = 6551, heur = -7.0, depth = 7
iter = 3869, queue = 6552, heur = -7.0, depth = 7
iter = 3870, queue = 6555, heur = -7.0, depth = 8
iter = 3871, queue = 6557, heur = -7.0, depth = 7
iter = 3872, queue = 6560, heur = -7.0, depth = 7
iter = 3873, queue = 6561, heur = -7.0, depth = 7
iter = 3874, queue = 6564, heur = -7.0, depth = 7
iter = 3875, queue = 6565, heur = -7.0, depth = 7
iter = 3876, queue = 6566, heur = -7.0, depth = 7
iter = 3877, queue = 6567, heur = -7.0, depth = 7
iter = 3878, queue = 6570, heur = -7.0, depth = 7
iter = 3879, queue = 6571, heur = -7.0, depth = 7
iter = 3880, queue = 6572, heur = -7.0, depth = 7
iter = 3881, queue = 6574, heur = -7.0, depth = 7
iter = 3882, queue = 6575, heur = -7.0, depth = 7
iter = 3883, queue = 6578, heur = -7.0, depth = 7
iter = 3884, queue = 6579, heur = -7.0, depth = 7
iter = 3885, queue = 6578, heur = -7.0, depth = 7
iter = 3886, queue = 6577, heur = -7.0, depth = 7
iter = 3887, queue = 6580, heur = -7.0, depth = 7
iter = 3888, queue = 6582, heur = -7.0, depth = 7
iter = 3889, queue = 6581, heur = -7.0, depth = 7
iter = 3890, queue = 6584, heur = -7.0, depth = 7
iter = 3891, queue = 6587, heur = -7.0, depth = 7
iter = 3892, queue = 6588, heur = -7.0, depth = 7
```

```
iter = 3893, queue = 6591, heur = -7.0, depth = 7
iter = 3894, queue = 6592, heur = -7.0, depth = 7
iter = 3895, queue = 6592, heur = -7.0, depth = 7
iter = 3896, queue = 6594, heur = -7.0, depth = 7
iter = 3897, queue = 6597, heur = -7.0, depth = 10
iter = 3898, queue = 6600, heur = -7.0, depth = 7
iter = 3899, queue = 6603, heur = -8.0, depth = 11
iter = 3900, queue = 6604, heur = -8.0, depth = 8
iter = 3901, queue = 6606, heur = -8.0, depth = 9
iter = 3902, queue = 6609, heur = -8.0, depth = 8
iter = 3903, queue = 6610, heur = -8.0, depth = 8
iter = 3904, queue = 6611, heur = -8.0, depth = 8
iter = 3905, queue = 6613, heur = -8.0, depth = 9
iter = 3906, queue = 6616, heur = -8.0, depth = 8
iter = 3907, queue = 6619, heur = -8.0, depth = 8
iter = 3908, queue = 6622, heur = -8.0, depth = 8
iter = 3909, queue = 6625, heur = -8.0, depth = 8
iter = 3910, queue = 6626, heur = -8.0, depth = 8
iter = 3911, queue = 6626, heur = -8.0, depth = 8
iter = 3912, queue = 6627, heur = -8.0, depth = 8
iter = 3913, queue = 6630, heur = -8.0, depth = 8
iter = 3914, queue = 6629, heur = -8.0, depth = 8
iter = 3915, queue = 6630, heur = -8.0, depth = 8
iter = 3916, queue = 6631, heur = -8.0, depth = 8
iter = 3917, queue = 6634, heur = -8.0, depth = 8
iter = 3918, queue = 6635, heur = -8.0, depth = 8
iter = 3919, queue = 6637, heur = -8.0, depth = 8
iter = 3920, queue = 6638, heur = -8.0, depth = 8
iter = 3921, queue = 6639, heur = -8.0, depth = 8
iter = 3922, queue = 6642, heur = -8.0, depth = 8
iter = 3923, queue = 6645, heur = -8.0, depth = 8
iter = 3924, queue = 6647, heur = -8.0, depth = 8
iter = 3925, queue = 6647, heur = -8.0, depth = 8
iter = 3926, queue = 6648, heur = -8.0, depth = 8
iter = 3927, queue = 6649, heur = -8.0, depth = 8
iter = 3928, queue = 6649, heur = -8.0, depth = 8
iter = 3929, queue = 6650, heur = -8.0, depth = 8
iter = 3930, queue = 6651, heur = -8.0, depth = 8
iter = 3931, queue = 6654, heur = -8.0, depth = 8
iter = 3932, queue = 6657, heur = -8.0, depth = 8
iter = 3933, queue = 6659, heur = -8.0, depth = 8
iter = 3934, queue = 6660, heur = -8.0, depth = 8
iter = 3935, queue = 6661, heur = -8.0, depth = 8
iter = 3936, queue = 6664, heur = -8.0, depth = 9
iter = 3937, queue = 6666, heur = -8.0, depth = 8
iter = 3938, queue = 6667, heur = -8.0, depth = 9
iter = 3939, queue = 6666, heur = -8.0, depth = 8
iter = 3940, queue = 6667, heur = -8.0, depth = 8
iter = 3941, queue = 6668, heur = -8.0, depth = 8
iter = 3942, queue = 6669, heur = -8.0, depth = 8
iter = 3943, queue = 6670, heur = -8.0, depth = 8
iter = 3944, queue = 6673, heur = -8.0, depth = 8
iter = 3945, queue = 6674, heur = -8.0, depth = 8
iter = 3946, queue = 6674, heur = -8.0, depth = 8
iter = 3947, queue = 6674, heur = -8.0, depth = 8
iter = 3948, queue = 6675, heur = -8.0, depth = 8
iter = 3949, queue = 6676, heur = -8.0, depth = 8
iter = 3950, queue = 6677, heur = -8.0, depth = 8
iter = 3951, queue = 6678, heur = -8.0, depth = 8
```

```
iter = 3952, queue = 6679, heur = -8.0, depth = 9
iter = 3953, queue = 6681, heur = -8.0, depth = 9
iter = 3954, queue = 6684, heur = -8.0, depth = 9
iter = 3955, queue = 6686, heur = -8.0, depth = 8
iter = 3956, queue = 6688, heur = -8.0, depth = 8
iter = 3957, queue = 6689, heur = -8.0, depth = 9
iter = 3958, queue = 6690, heur = -8.0, depth = 8
iter = 3959, queue = 6690, heur = -8.0, depth = 8
iter = 3960, queue = 6693, heur = -8.0, depth = 8
iter = 3961, queue = 6696, heur = -8.0, depth = 8
iter = 3962, queue = 6697, heur = -8.0, depth = 8
iter = 3963, queue = 6698, heur = -8.0, depth = 8
iter = 3964, queue = 6701, heur = -8.0, depth = 9
iter = 3965, queue = 6704, heur = -8.0, depth = 8
iter = 3966, queue = 6707, heur = -8.0, depth = 8
iter = 3967, queue = 6710, heur = -8.0, depth = 8
iter = 3968, queue = 6713, heur = -8.0, depth = 8
iter = 3969, queue = 6714, heur = -8.0, depth = 8
iter = 3970, queue = 6714, heur = -8.0, depth = 8
iter = 3971, queue = 6716, heur = -8.0, depth = 8
iter = 3972, queue = 6719, heur = -8.0, depth = 8
iter = 3973, queue = 6720, heur = -8.0, depth = 8
iter = 3974, queue = 6721, heur = -8.0, depth = 8
iter = 3975, queue = 6724, heur = -8.0, depth = 8
iter = 3976, queue = 6725, heur = -8.0, depth = 8
iter = 3977, queue = 6725, heur = -8.0, depth = 9
iter = 3978, queue = 6727, heur = -8.0, depth = 9
iter = 3979, queue = 6728, heur = -8.0, depth = 8
iter = 3980, queue = 6729, heur = -8.0, depth = 8
iter = 3981, queue = 6732, heur = -8.0, depth = 8
iter = 3982, queue = 6733, heur = -8.0, depth = 8
iter = 3983, queue = 6736, heur = -8.0, depth = 8
iter = 3984, queue = 6737, heur = -8.0, depth = 8
iter = 3985, queue = 6738, heur = -8.0, depth = 8
iter = 3986, queue = 6740, heur = -8.0, depth = 8
iter = 3987, queue = 6741, heur = -8.0, depth = 8
iter = 3988, queue = 6742, heur = -8.0, depth = 8
iter = 3989, queue = 6745, heur = -8.0, depth = 8
iter = 3990, queue = 6746, heur = -8.0, depth = 9
iter = 3991, queue = 6749, heur = -8.0, depth = 9
iter = 3992, queue = 6752, heur = -8.0, depth = 8
iter = 3993, queue = 6752, heur = -8.0, depth = 8
iter = 3994, queue = 6752, heur = -8.0, depth = 9
iter = 3995, queue = 6753, heur = -8.0, depth = 8
iter = 3996, queue = 6756, heur = -8.0, depth = 8
iter = 3997, queue = 6758, heur = -8.0, depth = 9
iter = 3998, queue = 6761, heur = -8.0, depth = 9
iter = 3999, queue = 6762, heur = -8.0, depth = 8
iter = 4000, queue = 6763, heur = -8.0, depth = 8
iter = 4001, queue = 6766, heur = -8.0, depth = 8
iter = 4002, queue = 6767, heur = -8.0, depth = 8
iter = 4003, queue = 6769, heur = -8.0, depth = 9
iter = 4004, queue = 6770, heur = -8.0, depth = 8
iter = 4005, queue = 6773, heur = -8.0, depth = 8
iter = 4006, queue = 6772, heur = -8.0, depth = 8
iter = 4007, queue = 6775, heur = -8.0, depth = 8
iter = 4008, queue = 6778, heur = -8.0, depth = 8
iter = 4009, queue = 6779, heur = -8.0, depth = 8
iter = 4010, queue = 6781, heur = -8.0, depth = 8
```

```
iter = 4011, queue = 6782, heur = -8.0, depth = 8
iter = 4012, queue = 6784, heur = -8.0, depth = 8
iter = 4013, queue = 6785, heur = -8.0, depth = 8
iter = 4014, queue = 6787, heur = -8.0, depth = 8
iter = 4015, queue = 6790, heur = -8.0, depth = 8
iter = 4016, queue = 6791, heur = -8.0, depth = 8
iter = 4017, queue = 6794, heur = -8.0, depth = 8
iter = 4018, queue = 6797, heur = -8.0, depth = 8
iter = 4019, queue = 6800, heur = -8.0, depth = 8
iter = 4020, queue = 6800, heur = -8.0, depth = 8
iter = 4021, queue = 6802, heur = -8.0, depth = 8
iter = 4022, queue = 6802, heur = -8.0, depth = 8
iter = 4023, queue = 6802, heur = -8.0, depth = 9
iter = 4024, queue = 6803, heur = -8.0, depth = 8
iter = 4025, queue = 6804, heur = -8.0, depth = 8
iter = 4026, queue = 6805, heur = -8.0, depth = 8
iter = 4027, queue = 6807, heur = -8.0, depth = 8
iter = 4028, queue = 6810, heur = -8.0, depth = 8
iter = 4029, queue = 6812, heur = -8.0, depth = 8
iter = 4030, queue = 6813, heur = -8.0, depth = 8
iter = 4031, queue = 6814, heur = -8.0, depth = 8
iter = 4032, queue = 6817, heur = -8.0, depth = 8
iter = 4033, queue = 6820, heur = -8.0, depth = 8
iter = 4034, queue = 6821, heur = -8.0, depth = 8
iter = 4035, queue = 6824, heur = -8.0, depth = 8
iter = 4036, queue = 6825, heur = -8.0, depth = 8
iter = 4037, queue = 6828, heur = -8.0, depth = 8
iter = 4038, queue = 6831, heur = -8.0, depth = 8
iter = 4039, queue = 6834, heur = -8.0, depth = 8
iter = 4040, queue = 6834, heur = -8.0, depth = 8
iter = 4041, queue = 6835, heur = -8.0, depth = 8
iter = 4042, queue = 6837, heur = -8.0, depth = 8
iter = 4043, queue = 6839, heur = -8.0, depth = 8
iter = 4044, queue = 6840, heur = -8.0, depth = 8
iter = 4045, queue = 6841, heur = -8.0, depth = 8
iter = 4046, queue = 6844, heur = -8.0, depth = 8
iter = 4047, queue = 6845, heur = -8.0, depth = 8
iter = 4048, queue = 6844, heur = -8.0, depth = 8
iter = 4049, queue = 6844, heur = -8.0, depth = 8
iter = 4050, queue = 6843, heur = -8.0, depth = 8
iter = 4051, queue = 6844, heur = -8.0, depth = 8
iter = 4052, queue = 6846, heur = -8.0, depth = 9
iter = 4053, queue = 6848, heur = -8.0, depth = 9
iter = 4054, queue = 6851, heur = -8.0, depth = 8
iter = 4055, queue = 6852, heur = -8.0, depth = 8
iter = 4056, queue = 6854, heur = -8.0, depth = 9
iter = 4057, queue = 6857, heur = -8.0, depth = 8
iter = 4058, queue = 6860, heur = -8.0, depth = 8
iter = 4059, queue = 6862, heur = -8.0, depth = 8
iter = 4060, queue = 6864, heur = -8.0, depth = 8
iter = 4061, queue = 6864, heur = -8.0, depth = 9
iter = 4062, queue = 6865, heur = -8.0, depth = 9
iter = 4063, queue = 6865, heur = -8.0, depth = 8
iter = 4064, queue = 6866, heur = -8.0, depth = 8
iter = 4065, queue = 6867, heur = -8.0, depth = 8
iter = 4066, queue = 6866, heur = -8.0, depth = 8
iter = 4067, queue = 6869, heur = -8.0, depth = 8
iter = 4068, queue = 6872, heur = -8.0, depth = 8
iter = 4069, queue = 6875, heur = -8.0, depth = 8
```

```
iter = 4070, queue = 6878, heur = -8.0, depth = 8
iter = 4071, queue = 6879, heur = -8.0, depth = 8
iter = 4072, queue = 6881, heur = -8.0, depth = 8
iter = 4073, queue = 6883, heur = -8.0, depth = 8
iter = 4074, queue = 6884, heur = -8.0, depth = 8
iter = 4075, queue = 6887, heur = -8.0, depth = 8
iter = 4076, queue = 6888, heur = -8.0, depth = 8
iter = 4077, queue = 6889, heur = -8.0, depth = 8
iter = 4078, queue = 6889, heur = -8.0, depth = 8
iter = 4079, queue = 6888, heur = -8.0, depth = 8
iter = 4080, queue = 6890, heur = -8.0, depth = 8
iter = 4081, queue = 6891, heur = -8.0, depth = 10
iter = 4082, queue = 6893, heur = -8.0, depth = 8
iter = 4083, queue = 6894, heur = -8.0, depth = 10
iter = 4084, queue = 6895, heur = -8.0, depth = 10
iter = 4085, queue = 6896, heur = -8.0, depth = 8
iter = 4086, queue = 6898, heur = -8.0, depth = 8
iter = 4087, queue = 6901, heur = -8.0, depth = 10
iter = 4088, queue = 6902, heur = -8.0, depth = 8
iter = 4089, queue = 6903, heur = -8.0, depth = 8
iter = 4090, queue = 6904, heur = -8.0, depth = 8
iter = 4091, queue = 6904, heur = -8.0, depth = 8
iter = 4092, queue = 6907, heur = -8.0, depth = 8
iter = 4093, queue = 6908, heur = -8.0, depth = 9
iter = 4094, queue = 6911, heur = -8.0, depth = 8
iter = 4095, queue = 6912, heur = -8.0, depth = 8
iter = 4096, queue = 6913, heur = -8.0, depth = 8
iter = 4097, queue = 6914, heur = -8.0, depth = 8
iter = 4098, queue = 6916, heur = -8.0, depth = 8
iter = 4099, queue = 6917, heur = -8.0, depth = 8
iter = 4100, queue = 6920, heur = -8.0, depth = 8
iter = 4101, queue = 6919, heur = -8.0, depth = 8
iter = 4102, queue = 6922, heur = -8.0, depth = 8
iter = 4103, queue = 6925, heur = -8.0, depth = 8
iter = 4104, queue = 6928, heur = -8.0, depth = 8
iter = 4105, queue = 6927, heur = -8.0, depth = 8
iter = 4106, queue = 6928, heur = -8.0, depth = 8
iter = 4107, queue = 6931, heur = -8.0, depth = 8
iter = 4108, queue = 6934, heur = -8.0, depth = 8
iter = 4109, queue = 6933, heur = -8.0, depth = 8
iter = 4110, queue = 6936, heur = -8.0, depth = 8
iter = 4111, queue = 6938, heur = -8.0, depth = 9
iter = 4112, queue = 6941, heur = -8.0, depth = 8
iter = 4113, queue = 6944, heur = -8.0, depth = 9
iter = 4114, queue = 6945, heur = -8.0, depth = 9
iter = 4115, queue = 6946, heur = -8.0, depth = 8
iter = 4116, queue = 6949, heur = -8.0, depth = 8
iter = 4117, queue = 6949, heur = -8.0, depth = 9
iter = 4118, queue = 6950, heur = -8.0, depth = 9
iter = 4119, queue = 6953, heur = -8.0, depth = 8
iter = 4120, queue = 6956, heur = -8.0, depth = 9
iter = 4121, queue = 6957, heur = -8.0, depth = 8
iter = 4122, queue = 6957, heur = -8.0, depth = 8
iter = 4123, queue = 6960, heur = -8.0, depth = 8
iter = 4124, queue = 6961, heur = -8.0, depth = 8
iter = 4125, queue = 6962, heur = -8.0, depth = 8
iter = 4126, queue = 6963, heur = -8.0, depth = 8
iter = 4127, queue = 6964, heur = -8.0, depth = 8
iter = 4128, queue = 6965, heur = -8.0, depth = 8
```

```
iter = 4129, queue = 6966, heur = -8.0, depth = 8
iter = 4130, queue = 6969, heur = -8.0, depth = 8
iter = 4131, queue = 6972, heur = -8.0, depth = 8
iter = 4132, queue = 6972, heur = -8.0, depth = 8
iter = 4133, queue = 6974, heur = -8.0, depth = 8
iter = 4134, queue = 6977, heur = -8.0, depth = 8
iter = 4135, queue = 6980, heur = -8.0, depth = 8
iter = 4136, queue = 6982, heur = -8.0, depth = 8
iter = 4137, queue = 6984, heur = -8.0, depth = 8
iter = 4138, queue = 6986, heur = -8.0, depth = 8
iter = 4139, queue = 6987, heur = -8.0, depth = 8
iter = 4140, queue = 6990, heur = -8.0, depth = 8
iter = 4141, queue = 6991, heur = -8.0, depth = 8
iter = 4142, queue = 6992, heur = -8.0, depth = 8
iter = 4143, queue = 6994, heur = -8.0, depth = 8
iter = 4144, queue = 6993, heur = -8.0, depth = 8
iter = 4145, queue = 6994, heur = -8.0, depth = 8
iter = 4146, queue = 6993, heur = -8.0, depth = 8
iter = 4147, queue = 6993, heur = -8.0, depth = 8
iter = 4148, queue = 6995, heur = -8.0, depth = 8
iter = 4149, queue = 6998, heur = -8.0, depth = 8
iter = 4150, queue = 6999, heur = -8.0, depth = 8
iter = 4151, queue = 7001, heur = -8.0, depth = 8
iter = 4152, queue = 7001, heur = -8.0, depth = 8
iter = 4153, queue = 7002, heur = -8.0, depth = 8
iter = 4154, queue = 7001, heur = -8.0, depth = 8
iter = 4155, queue = 7000, heur = -8.0, depth = 8
iter = 4156, queue = 7003, heur = -8.0, depth = 8
iter = 4157, queue = 7004, heur = -8.0, depth = 8
iter = 4158, queue = 7003, heur = -8.0, depth = 8
iter = 4159, queue = 7005, heur = -8.0, depth = 8
iter = 4160, queue = 7004, heur = -8.0, depth = 8
iter = 4161, queue = 7007, heur = -8.0, depth = 8
iter = 4162, queue = 7008, heur = -8.0, depth = 8
iter = 4163, queue = 7007, heur = -8.0, depth = 8
iter = 4164, queue = 7010, heur = -8.0, depth = 9
iter = 4165, queue = 7013, heur = -8.0, depth = 8
iter = 4166, queue = 7016, heur = -8.0, depth = 8
iter = 4167, queue = 7019, heur = -8.0, depth = 8
iter = 4168, queue = 7020, heur = -8.0, depth = 8
iter = 4169, queue = 7023, heur = -8.0, depth = 8
iter = 4170, queue = 7025, heur = -8.0, depth = 8
iter = 4171, queue = 7028, heur = -8.0, depth = 11
iter = 4172, queue = 7029, heur = -8.0, depth = 8
iter = 4173, queue = 7031, heur = -8.0, depth = 8
iter = 4174, queue = 7030, heur = -8.0, depth = 8
iter = 4175, queue = 7030, heur = -8.0, depth = 8
iter = 4176, queue = 7032, heur = -8.0, depth = 8
iter = 4177, queue = 7031, heur = -8.0, depth = 8
iter = 4178, queue = 7033, heur = -8.0, depth = 8
iter = 4179, queue = 7034, heur = -8.0, depth = 8
iter = 4180, queue = 7035, heur = -8.0, depth = 8
iter = 4181, queue = 7036, heur = -8.0, depth = 9
iter = 4182, queue = 7036, heur = -8.0, depth = 8
iter = 4183, queue = 7037, heur = -8.0, depth = 8
iter = 4184, queue = 7038, heur = -8.0, depth = 9
iter = 4185, queue = 7039, heur = -8.0, depth = 8
iter = 4186, queue = 7040, heur = -8.0, depth = 8
iter = 4187, queue = 7043, heur = -8.0, depth = 8
```

```
iter = 4188, queue = 7043, heur = -8.0, depth = 8
iter = 4189, queue = 7046, heur = -8.0, depth = 9
iter = 4190, queue = 7047, heur = -8.0, depth = 8
iter = 4191, queue = 7048, heur = -8.0, depth = 8
iter = 4192, queue = 7048, heur = -8.0, depth = 8
iter = 4193, queue = 7051, heur = -8.0, depth = 8
iter = 4194, queue = 7053, heur = -8.0, depth = 8
iter = 4195, queue = 7054, heur = -8.0, depth = 8
iter = 4196, queue = 7055, heur = -8.0, depth = 8
iter = 4197, queue = 7058, heur = -8.0, depth = 8
iter = 4198, queue = 7060, heur = -8.0, depth = 8
iter = 4199, queue = 7062, heur = -8.0, depth = 9
iter = 4200, queue = 7064, heur = -8.0, depth = 9
iter = 4201, queue = 7065, heur = -8.0, depth = 8
iter = 4202, queue = 7064, heur = -8.0, depth = 8
iter = 4203, queue = 7066, heur = -8.0, depth = 8
iter = 4204, queue = 7069, heur = -8.0, depth = 9
iter = 4205, queue = 7070, heur = -8.0, depth = 8
iter = 4206, queue = 7071, heur = -8.0, depth = 8
iter = 4207, queue = 7072, heur = -8.0, depth = 8
iter = 4208, queue = 7073, heur = -8.0, depth = 8
iter = 4209, queue = 7075, heur = -8.0, depth = 8
iter = 4210, queue = 7078, heur = -8.0, depth = 8
iter = 4211, queue = 7079, heur = -8.0, depth = 8
iter = 4212, queue = 7082, heur = -8.0, depth = 8
iter = 4213, queue = 7085, heur = -8.0, depth = 8
iter = 4214, queue = 7084, heur = -8.0, depth = 8
iter = 4215, queue = 7085, heur = -8.0, depth = 8
iter = 4216, queue = 7086, heur = -8.0, depth = 8
iter = 4217, queue = 7088, heur = -8.0, depth = 8
iter = 4218, queue = 7091, heur = -8.0, depth = 8
iter = 4219, queue = 7091, heur = -8.0, depth = 8
iter = 4220, queue = 7090, heur = -8.0, depth = 8
iter = 4221, queue = 7092, heur = -8.0, depth = 8
iter = 4222, queue = 7091, heur = -8.0, depth = 8
iter = 4223, queue = 7092, heur = -8.0, depth = 8
iter = 4224, queue = 7093, heur = -8.0, depth = 8
iter = 4225, queue = 7096, heur = -8.0, depth = 8
iter = 4226, queue = 7099, heur = -8.0, depth = 8
iter = 4227, queue = 7100, heur = -8.0, depth = 8
iter = 4228, queue = 7102, heur = -8.0, depth = 9
iter = 4229, queue = 7105, heur = -8.0, depth = 9
iter = 4230, queue = 7106, heur = -8.0, depth = 8
iter = 4231, queue = 7107, heur = -8.0, depth = 9
iter = 4232, queue = 7108, heur = -8.0, depth = 9
iter = 4233, queue = 7109, heur = -8.0, depth = 8
iter = 4234, queue = 7111, heur = -8.0, depth = 8
iter = 4235, queue = 7112, heur = -8.0, depth = 8
iter = 4236, queue = 7114, heur = -8.0, depth = 9
iter = 4237, queue = 7117, heur = -8.0, depth = 9
iter = 4238, queue = 7117, heur = -8.0, depth = 8
iter = 4239, queue = 7120, heur = -8.0, depth = 9
iter = 4240, queue = 7123, heur = -8.0, depth = 9
iter = 4241, queue = 7126, heur = -8.0, depth = 8
iter = 4242, queue = 7127, heur = -8.0, depth = 8
iter = 4243, queue = 7129, heur = -8.0, depth = 9
iter = 4244, queue = 7132, heur = -8.0, depth = 8
iter = 4245, queue = 7133, heur = -8.0, depth = 8
iter = 4246, queue = 7134, heur = -8.0, depth = 8
```

```
iter = 4247, queue = 7135, heur = -8.0, depth = 8
iter = 4248, queue = 7136, heur = -8.0, depth = 8
iter = 4249, queue = 7139, heur = -8.0, depth = 8
iter = 4250, queue = 7139, heur = -8.0, depth = 8
iter = 4251, queue = 7138, heur = -8.0, depth = 8
iter = 4252, queue = 7139, heur = -8.0, depth = 12
iter = 4253, queue = 7140, heur = -8.0, depth = 8
iter = 4254, queue = 7143, heur = -8.0, depth = 9
iter = 4255, queue = 7146, heur = -8.0, depth = 9
iter = 4256, queue = 7147, heur = -8.0, depth = 8
iter = 4257, queue = 7147, heur = -8.0, depth = 8
iter = 4258, queue = 7150, heur = -8.0, depth = 9
iter = 4259, queue = 7152, heur = -8.0, depth = 12
iter = 4260, queue = 7155, heur = -8.0, depth = 8
iter = 4261, queue = 7158, heur = -8.0, depth = 12
iter = 4262, queue = 7159, heur = -8.0, depth = 12
iter = 4263, queue = 7160, heur = -8.0, depth = 8
iter = 4264, queue = 7163, heur = -8.0, depth = 8
iter = 4265, queue = 7166, heur = -8.0, depth = 8
iter = 4266, queue = 7166, heur = -8.0, depth = 8
iter = 4267, queue = 7169, heur = -8.0, depth = 8
iter = 4268, queue = 7172, heur = -8.0, depth = 8
iter = 4269, queue = 7175, heur = -8.0, depth = 8
iter = 4270, queue = 7178, heur = -8.0, depth = 8
iter = 4271, queue = 7179, heur = -8.0, depth = 8
iter = 4272, queue = 7180, heur = -8.0, depth = 8
iter = 4273, queue = 7181, heur = -8.0, depth = 8
iter = 4274, queue = 7184, heur = -8.0, depth = 8
iter = 4275, queue = 7187, heur = -8.0, depth = 8
iter = 4276, queue = 7186, heur = -8.0, depth = 8
iter = 4277, queue = 7189, heur = -8.0, depth = 8
iter = 4278, queue = 7191, heur = -8.0, depth = 8
iter = 4279, queue = 7192, heur = -8.0, depth = 8
iter = 4280, queue = 7193, heur = -8.0, depth = 8
iter = 4281, queue = 7194, heur = -8.0, depth = 8
iter = 4282, queue = 7197, heur = -8.0, depth = 8
iter = 4283, queue = 7200, heur = -8.0, depth = 8
iter = 4284, queue = 7202, heur = -8.0, depth = 8
iter = 4285, queue = 7203, heur = -8.0, depth = 8
iter = 4286, queue = 7205, heur = -8.0, depth = 8
iter = 4287, queue = 7206, heur = -8.0, depth = 8
iter = 4288, queue = 7209, heur = -8.0, depth = 8
iter = 4289, queue = 7211, heur = -8.0, depth = 8
iter = 4290, queue = 7210, heur = -8.0, depth = 11
iter = 4291, queue = 7213, heur = -8.0, depth = 11
iter = 4292, queue = 7215, heur = -8.0, depth = 8
iter = 4293, queue = 7214, heur = -8.0, depth = 11
iter = 4294, queue = 7217, heur = -8.0, depth = 8
iter = 4295, queue = 7218, heur = -8.0, depth = 8
iter = 4296, queue = 7218, heur = -8.0, depth = 8
iter = 4297, queue = 7221, heur = -8.0, depth = 8
iter = 4298, queue = 7222, heur = -8.0, depth = 8
iter = 4299, queue = 7224, heur = -8.0, depth = 8
iter = 4300, queue = 7227, heur = -8.0, depth = 8
iter = 4301, queue = 7229, heur = -8.0, depth = 8
iter = 4302, queue = 7232, heur = -8.0, depth = 8
iter = 4303, queue = 7234, heur = -8.0, depth = 8
iter = 4304, queue = 7237, heur = -8.0, depth = 8
iter = 4305, queue = 7236, heur = -8.0, depth = 8
```

```
iter = 4306, queue = 7237, heur = -8.0, depth = 8
iter = 4307, queue = 7240, heur = -8.0, depth = 8
iter = 4308, queue = 7241, heur = -8.0, depth = 8
iter = 4309, queue = 7244, heur = -8.0, depth = 8
iter = 4310, queue = 7247, heur = -8.0, depth = 8
iter = 4311, queue = 7250, heur = -8.0, depth = 8
iter = 4312, queue = 7252, heur = -8.0, depth = 8
iter = 4313, queue = 7251, heur = -8.0, depth = 8
iter = 4314, queue = 7252, heur = -8.0, depth = 8
iter = 4315, queue = 7253, heur = -8.0, depth = 8
iter = 4316, queue = 7256, heur = -8.0, depth = 8
iter = 4317, queue = 7255, heur = -8.0, depth = 8
iter = 4318, queue = 7257, heur = -8.0, depth = 8
iter = 4319, queue = 7260, heur = -8.0, depth = 8
iter = 4320, queue = 7261, heur = -8.0, depth = 8
iter = 4321, queue = 7264, heur = -8.0, depth = 8
iter = 4322, queue = 7267, heur = -8.0, depth = 8
iter = 4323, queue = 7268, heur = -8.0, depth = 8
iter = 4324, queue = 7269, heur = -8.0, depth = 8
iter = 4325, queue = 7270, heur = -8.0, depth = 8
iter = 4326, queue = 7272, heur = -8.0, depth = 8
iter = 4327, queue = 7274, heur = -8.0, depth = 8
iter = 4328, queue = 7275, heur = -8.0, depth = 8
iter = 4329, queue = 7278, heur = -8.0, depth = 9
iter = 4330, queue = 7279, heur = -8.0, depth = 9
iter = 4331, queue = 7281, heur = -8.0, depth = 8
iter = 4332, queue = 7282, heur = -8.0, depth = 9
iter = 4333, queue = 7283, heur = -8.0, depth = 8
iter = 4334, queue = 7284, heur = -8.0, depth = 8
iter = 4335, queue = 7284, heur = -8.0, depth = 9
iter = 4336, queue = 7285, heur = -8.0, depth = 8
iter = 4337, queue = 7288, heur = -8.0, depth = 8
iter = 4338, queue = 7288, heur = -8.0, depth = 8
iter = 4339, queue = 7291, heur = -8.0, depth = 8
iter = 4340, queue = 7293, heur = -8.0, depth = 8
iter = 4341, queue = 7292, heur = -8.0, depth = 8
iter = 4342, queue = 7295, heur = -8.0, depth = 8
iter = 4343, queue = 7298, heur = -8.0, depth = 8
iter = 4344, queue = 7301, heur = -8.0, depth = 8
iter = 4345, queue = 7300, heur = -8.0, depth = 8
iter = 4346, queue = 7301, heur = -8.0, depth = 8
iter = 4347, queue = 7304, heur = -8.0, depth = 8
iter = 4348, queue = 7305, heur = -8.0, depth = 8
iter = 4349, queue = 7308, heur = -8.0, depth = 8
iter = 4350, queue = 7309, heur = -8.0, depth = 8
iter = 4351, queue = 7310, heur = -8.0, depth = 8
iter = 4352, queue = 7311, heur = -8.0, depth = 8
iter = 4353, queue = 7310, heur = -8.0, depth = 8
iter = 4354, queue = 7313, heur = -8.0, depth = 8
iter = 4355, queue = 7314, heur = -8.0, depth = 8
iter = 4356, queue = 7317, heur = -8.0, depth = 8
iter = 4357, queue = 7318, heur = -8.0, depth = 8
iter = 4358, queue = 7319, heur = -8.0, depth = 8
iter = 4359, queue = 7318, heur = -8.0, depth = 8
iter = 4360, queue = 7319, heur = -8.0, depth = 8
iter = 4361, queue = 7320, heur = -8.0, depth = 8
iter = 4362, queue = 7323, heur = -8.0, depth = 8
iter = 4363, queue = 7324, heur = -8.0, depth = 8
iter = 4364, queue = 7325, heur = -8.0, depth = 8
```

```
iter = 4365, queue = 7326, heur = -8.0, depth = 8
iter = 4366, queue = 7329, heur = -8.0, depth = 8
iter = 4367, queue = 7331, heur = -8.0, depth = 8
iter = 4368, queue = 7334, heur = -8.0, depth = 8
iter = 4369, queue = 7335, heur = -8.0, depth = 8
iter = 4370, queue = 7338, heur = -8.0, depth = 8
iter = 4371, queue = 7339, heur = -8.0, depth = 8
iter = 4372, queue = 7342, heur = -8.0, depth = 8
iter = 4373, queue = 7343, heur = -8.0, depth = 8
iter = 4374, queue = 7344, heur = -8.0, depth = 8
iter = 4375, queue = 7347, heur = -8.0, depth = 8
iter = 4376, queue = 7347, heur = -8.0, depth = 8
iter = 4377, queue = 7350, heur = -8.0, depth = 8
iter = 4378, queue = 7352, heur = -8.0, depth = 8
iter = 4379, queue = 7355, heur = -8.0, depth = 8
iter = 4380, queue = 7358, heur = -8.0, depth = 8
iter = 4381, queue = 7360, heur = -8.0, depth = 8
iter = 4382, queue = 7361, heur = -8.0, depth = 8
iter = 4383, queue = 7362, heur = -8.0, depth = 8
iter = 4384, queue = 7364, heur = -8.0, depth = 8
iter = 4385, queue = 7365, heur = -8.0, depth = 8
iter = 4386, queue = 7368, heur = -8.0, depth = 8
iter = 4387, queue = 7371, heur = -8.0, depth = 8
iter = 4388, queue = 7374, heur = -8.0, depth = 8
iter = 4389, queue = 7375, heur = -8.0, depth = 8
iter = 4390, queue = 7376, heur = -8.0, depth = 8
iter = 4391, queue = 7376, heur = -8.0, depth = 8
iter = 4392, queue = 7379, heur = -8.0, depth = 8
iter = 4393, queue = 7380, heur = -8.0, depth = 8
iter = 4394, queue = 7381, heur = -8.0, depth = 8
iter = 4395, queue = 7384, heur = -8.0, depth = 8
iter = 4396, queue = 7386, heur = -8.0, depth = 8
iter = 4397, queue = 7387, heur = -8.0, depth = 8
iter = 4398, queue = 7389, heur = -8.0, depth = 8
iter = 4399, queue = 7390, heur = -8.0, depth = 8
iter = 4400, queue = 7391, heur = -8.0, depth = 8
iter = 4401, queue = 7393, heur = -8.0, depth = 8
iter = 4402, queue = 7396, heur = -8.0, depth = 8
iter = 4403, queue = 7397, heur = -8.0, depth = 8
iter = 4404, queue = 7400, heur = -8.0, depth = 8
iter = 4405, queue = 7403, heur = -8.0, depth = 8
iter = 4406, queue = 7404, heur = -8.0, depth = 8
iter = 4407, queue = 7405, heur = -8.0, depth = 8
iter = 4408, queue = 7407, heur = -8.0, depth = 8
iter = 4409, queue = 7410, heur = -8.0, depth = 8
iter = 4410, queue = 7412, heur = -8.0, depth = 8
iter = 4411, queue = 7415, heur = -8.0, depth = 8
iter = 4412, queue = 7416, heur = -8.0, depth = 8
iter = 4413, queue = 7417, heur = -8.0, depth = 8
iter = 4414, queue = 7420, heur = -8.0, depth = 8
iter = 4415, queue = 7421, heur = -8.0, depth = 8
iter = 4416, queue = 7420, heur = -8.0, depth = 9
iter = 4417, queue = 7423, heur = -8.0, depth = 8
iter = 4418, queue = 7425, heur = -8.0, depth = 8
iter = 4419, queue = 7424, heur = -8.0, depth = 8
iter = 4420, queue = 7425, heur = -8.0, depth = 8
iter = 4421, queue = 7426, heur = -8.0, depth = 8
iter = 4422, queue = 7427, heur = -8.0, depth = 8
iter = 4423, queue = 7428, heur = -8.0, depth = 8
```

```
iter = 4424, queue = 7428, heur = -8.0, depth = 8
iter = 4425, queue = 7429, heur = -8.0, depth = 9
iter = 4426, queue = 7430, heur = -8.0, depth = 8
iter = 4427, queue = 7433, heur = -8.0, depth = 8
iter = 4428, queue = 7434, heur = -8.0, depth = 8
iter = 4429, queue = 7435, heur = -8.0, depth = 8
iter = 4430, queue = 7435, heur = -8.0, depth = 8
iter = 4431, queue = 7438, heur = -8.0, depth = 8
iter = 4432, queue = 7439, heur = -8.0, depth = 8
iter = 4433, queue = 7440, heur = -8.0, depth = 8
iter = 4434, queue = 7441, heur = -8.0, depth = 8
iter = 4435, queue = 7440, heur = -8.0, depth = 8
iter = 4436, queue = 7443, heur = -8.0, depth = 9
iter = 4437, queue = 7446, heur = -8.0, depth = 8
iter = 4438, queue = 7449, heur = -8.0, depth = 8
iter = 4439, queue = 7452, heur = -8.0, depth = 8
iter = 4440, queue = 7453, heur = -8.0, depth = 8
iter = 4441, queue = 7456, heur = -8.0, depth = 8
iter = 4442, queue = 7458, heur = -8.0, depth = 8
iter = 4443, queue = 7460, heur = -8.0, depth = 8
iter = 4444, queue = 7463, heur = -8.0, depth = 8
iter = 4445, queue = 7466, heur = -8.0, depth = 8
iter = 4446, queue = 7467, heur = -8.0, depth = 8
iter = 4447, queue = 7468, heur = -8.0, depth = 8
iter = 4448, queue = 7469, heur = -8.0, depth = 8
iter = 4449, queue = 7472, heur = -8.0, depth = 8
iter = 4450, queue = 7475, heur = -8.0, depth = 8
iter = 4451, queue = 7478, heur = -8.0, depth = 8
iter = 4452, queue = 7481, heur = -8.0, depth = 8
iter = 4453, queue = 7483, heur = -8.0, depth = 8
iter = 4454, queue = 7482, heur = -8.0, depth = 8
iter = 4455, queue = 7481, heur = -8.0, depth = 8
iter = 4456, queue = 7482, heur = -8.0, depth = 8
iter = 4457, queue = 7484, heur = -8.0, depth = 8
iter = 4458, queue = 7483, heur = -8.0, depth = 8
iter = 4459, queue = 7483, heur = -8.0, depth = 9
iter = 4460, queue = 7486, heur = -8.0, depth = 9
iter = 4461, queue = 7487, heur = -8.0, depth = 9
iter = 4462, queue = 7489, heur = -8.0, depth = 8
iter = 4463, queue = 7489, heur = -8.0, depth = 8
iter = 4464, queue = 7490, heur = -8.0, depth = 8
iter = 4465, queue = 7491, heur = -8.0, depth = 9
iter = 4466, queue = 7494, heur = -8.0, depth = 8
iter = 4467, queue = 7497, heur = -8.0, depth = 9
iter = 4468, queue = 7498, heur = -8.0, depth = 9
iter = 4469, queue = 7499, heur = -8.0, depth = 8
iter = 4470, queue = 7499, heur = -8.0, depth = 8
iter = 4471, queue = 7500, heur = -8.0, depth = 8
iter = 4472, queue = 7500, heur = -8.0, depth = 8
iter = 4473, queue = 7503, heur = -8.0, depth = 8
iter = 4474, queue = 7502, heur = -8.0, depth = 8
iter = 4475, queue = 7504, heur = -8.0, depth = 8
iter = 4476, queue = 7506, heur = -8.0, depth = 8
iter = 4477, queue = 7509, heur = -8.0, depth = 9
iter = 4478, queue = 7512, heur = -8.0, depth = 9
iter = 4479, queue = 7513, heur = -8.0, depth = 8
iter = 4480, queue = 7514, heur = -8.0, depth = 8
iter = 4481, queue = 7516, heur = -8.0, depth = 8
iter = 4482, queue = 7519, heur = -8.0, depth = 8
```

```
iter = 4483, queue = 7518, heur = -8.0, depth = 8
iter = 4484, queue = 7520, heur = -8.0, depth = 8
iter = 4485, queue = 7519, heur = -8.0, depth = 8
iter = 4486, queue = 7519, heur = -8.0, depth = 8
iter = 4487, queue = 7520, heur = -8.0, depth = 8
iter = 4488, queue = 7523, heur = -8.0, depth = 8
iter = 4489, queue = 7524, heur = -8.0, depth = 8
iter = 4490, queue = 7527, heur = -8.0, depth = 8
iter = 4491, queue = 7530, heur = -8.0, depth = 8
iter = 4492, queue = 7533, heur = -8.0, depth = 8
iter = 4493, queue = 7536, heur = -8.0, depth = 9
iter = 4494, queue = 7537, heur = -8.0, depth = 8
iter = 4495, queue = 7536, heur = -8.0, depth = 8
iter = 4496, queue = 7538, heur = -8.0, depth = 8
iter = 4497, queue = 7538, heur = -8.0, depth = 8
iter = 4498, queue = 7539, heur = -8.0, depth = 8
iter = 4499, queue = 7540, heur = -8.0, depth = 8
iter = 4500, queue = 7540, heur = -8.0, depth = 8
iter = 4501, queue = 7541, heur = -8.0, depth = 8
iter = 4502, queue = 7542, heur = -8.0, depth = 8
iter = 4503, queue = 7545, heur = -8.0, depth = 8
iter = 4504, queue = 7545, heur = -8.0, depth = 8
iter = 4505, queue = 7545, heur = -8.0, depth = 8
iter = 4506, queue = 7546, heur = -8.0, depth = 8
iter = 4507, queue = 7549, heur = -8.0, depth = 8
iter = 4508, queue = 7550, heur = -8.0, depth = 8
iter = 4509, queue = 7553, heur = -8.0, depth = 8
iter = 4510, queue = 7556, heur = -8.0, depth = 8
iter = 4511, queue = 7559, heur = -8.0, depth = 8
iter = 4512, queue = 7561, heur = -8.0, depth = 8
iter = 4513, queue = 7564, heur = -8.0, depth = 9
iter = 4514, queue = 7567, heur = -8.0, depth = 8
iter = 4515, queue = 7569, heur = -8.0, depth = 9
iter = 4516, queue = 7572, heur = -8.0, depth = 9
iter = 4517, queue = 7575, heur = -8.0, depth = 8
iter = 4518, queue = 7576, heur = -8.0, depth = 8
iter = 4519, queue = 7577, heur = -8.0, depth = 8
iter = 4520, queue = 7579, heur = -8.0, depth = 8
iter = 4521, queue = 7582, heur = -8.0, depth = 8
iter = 4522, queue = 7585, heur = -8.0, depth = 9
iter = 4523, queue = 7588, heur = -8.0, depth = 8
iter = 4524, queue = 7590, heur = -8.0, depth = 8
iter = 4525, queue = 7593, heur = -8.0, depth = 8
iter = 4526, queue = 7595, heur = -8.0, depth = 8
iter = 4527, queue = 7594, heur = -8.0, depth = 8
iter = 4528, queue = 7596, heur = -8.0, depth = 8
iter = 4529, queue = 7597, heur = -8.0, depth = 8
iter = 4530, queue = 7598, heur = -8.0, depth = 8
iter = 4531, queue = 7601, heur = -8.0, depth = 8
iter = 4532, queue = 7604, heur = -8.0, depth = 8
iter = 4533, queue = 7603, heur = -8.0, depth = 8
iter = 4534, queue = 7604, heur = -8.0, depth = 9
iter = 4535, queue = 7607, heur = -8.0, depth = 8
iter = 4536, queue = 7608, heur = -8.0, depth = 8
iter = 4537, queue = 7611, heur = -8.0, depth = 8
iter = 4538, queue = 7610, heur = -8.0, depth = 8
iter = 4539, queue = 7613, heur = -8.0, depth = 8
iter = 4540, queue = 7616, heur = -8.0, depth = 8
iter = 4541, queue = 7617, heur = -8.0, depth = 9
```

```
iter = 4542, queue = 7620, heur = -8.0, depth = 8
iter = 4543, queue = 7623, heur = -8.0, depth = 8
iter = 4544, queue = 7625, heur = -8.0, depth = 8
iter = 4545, queue = 7628, heur = -8.0, depth = 8
iter = 4546, queue = 7630, heur = -8.0, depth = 8
iter = 4547, queue = 7632, heur = -8.0, depth = 8
iter = 4548, queue = 7635, heur = -8.0, depth = 8
iter = 4549, queue = 7636, heur = -8.0, depth = 8
iter = 4550, queue = 7639, heur = -8.0, depth = 8
iter = 4551, queue = 7641, heur = -8.0, depth = 8
iter = 4552, queue = 7642, heur = -8.0, depth = 8
iter = 4553, queue = 7643, heur = -8.0, depth = 8
iter = 4554, queue = 7642, heur = -8.0, depth = 8
iter = 4555, queue = 7643, heur = -8.0, depth = 8
iter = 4556, queue = 7646, heur = -8.0, depth = 8
iter = 4557, queue = 7647, heur = -8.0, depth = 9
iter = 4558, queue = 7650, heur = -8.0, depth = 8
iter = 4559, queue = 7653, heur = -8.0, depth = 8
iter = 4560, queue = 7655, heur = -8.0, depth = 8
iter = 4561, queue = 7658, heur = -8.0, depth = 9
iter = 4562, queue = 7661, heur = -8.0, depth = 8
iter = 4563, queue = 7661, heur = -8.0, depth = 8
iter = 4564, queue = 7662, heur = -8.0, depth = 8
iter = 4565, queue = 7663, heur = -8.0, depth = 8
iter = 4566, queue = 7664, heur = -8.0, depth = 8
iter = 4567, queue = 7664, heur = -8.0, depth = 8
iter = 4568, queue = 7665, heur = -8.0, depth = 8
iter = 4569, queue = 7666, heur = -8.0, depth = 8
iter = 4570, queue = 7669, heur = -8.0, depth = 9
iter = 4571, queue = 7670, heur = -8.0, depth = 8
iter = 4572, queue = 7669, heur = -8.0, depth = 8
iter = 4573, queue = 7671, heur = -8.0, depth = 8
iter = 4574, queue = 7673, heur = -8.0, depth = 8
iter = 4575, queue = 7674, heur = -8.0, depth = 8
iter = 4576, queue = 7675, heur = -8.0, depth = 8
iter = 4577, queue = 7678, heur = -8.0, depth = 9
iter = 4578, queue = 7681, heur = -8.0, depth = 8
iter = 4579, queue = 7682, heur = -8.0, depth = 8
iter = 4580, queue = 7684, heur = -8.0, depth = 8
iter = 4581, queue = 7687, heur = -8.0, depth = 8
iter = 4582, queue = 7688, heur = -8.0, depth = 8
iter = 4583, queue = 7689, heur = -8.0, depth = 8
iter = 4584, queue = 7688, heur = -8.0, depth = 8
iter = 4585, queue = 7688, heur = -8.0, depth = 8
iter = 4586, queue = 7689, heur = -8.0, depth = 8
iter = 4587, queue = 7690, heur = -8.0, depth = 8
iter = 4588, queue = 7691, heur = -8.0, depth = 8
iter = 4589, queue = 7694, heur = -8.0, depth = 8
iter = 4590, queue = 7695, heur = -8.0, depth = 8
iter = 4591, queue = 7695, heur = -8.0, depth = 8
iter = 4592, queue = 7696, heur = -8.0, depth = 8
iter = 4593, queue = 7699, heur = -8.0, depth = 8
iter = 4594, queue = 7701, heur = -8.0, depth = 8
iter = 4595, queue = 7704, heur = -8.0, depth = 8
iter = 4596, queue = 7707, heur = -8.0, depth = 8
iter = 4597, queue = 7708, heur = -8.0, depth = 8
iter = 4598, queue = 7710, heur = -8.0, depth = 8
iter = 4599, queue = 7713, heur = -8.0, depth = 8
iter = 4600, queue = 7715, heur = -8.0, depth = 8
```

```
iter = 4601, queue = 7716, heur = -8.0, depth = 8
iter = 4602, queue = 7716, heur = -8.0, depth = 8
iter = 4603, queue = 7717, heur = -8.0, depth = 9
iter = 4604, queue = 7718, heur = -8.0, depth = 9
iter = 4605, queue = 7719, heur = -8.0, depth = 8
iter = 4606, queue = 7720, heur = -8.0, depth = 9
iter = 4607, queue = 7721, heur = -8.0, depth = 9
iter = 4608, queue = 7722, heur = -8.0, depth = 8
iter = 4609, queue = 7724, heur = -8.0, depth = 8
iter = 4610, queue = 7727, heur = -8.0, depth = 8
iter = 4611, queue = 7728, heur = -8.0, depth = 8
iter = 4612, queue = 7731, heur = -8.0, depth = 8
iter = 4613, queue = 7734, heur = -8.0, depth = 8
iter = 4614, queue = 7737, heur = -8.0, depth = 8
iter = 4615, queue = 7738, heur = -8.0, depth = 10
iter = 4616, queue = 7739, heur = -8.0, depth = 8
iter = 4617, queue = 7742, heur = -8.0, depth = 9
iter = 4618, queue = 7744, heur = -8.0, depth = 8
iter = 4619, queue = 7747, heur = -8.0, depth = 8
iter = 4620, queue = 7748, heur = -8.0, depth = 8
iter = 4621, queue = 7749, heur = -8.0, depth = 8
iter = 4622, queue = 7750, heur = -8.0, depth = 8
iter = 4623, queue = 7751, heur = -8.0, depth = 8
iter = 4624, queue = 7752, heur = -8.0, depth = 8
iter = 4625, queue = 7755, heur = -8.0, depth = 8
iter = 4626, queue = 7756, heur = -8.0, depth = 8
iter = 4627, queue = 7759, heur = -8.0, depth = 8
iter = 4628, queue = 7760, heur = -8.0, depth = 9
iter = 4629, queue = 7763, heur = -8.0, depth = 9
iter = 4630, queue = 7764, heur = -8.0, depth = 9
iter = 4631, queue = 7767, heur = -8.0, depth = 9
iter = 4632, queue = 7768, heur = -8.0, depth = 8
iter = 4633, queue = 7770, heur = -8.0, depth = 8
iter = 4634, queue = 7770, heur = -8.0, depth = 9
iter = 4635, queue = 7773, heur = -8.0, depth = 8
iter = 4636, queue = 7776, heur = -8.0, depth = 8
iter = 4637, queue = 7779, heur = -8.0, depth = 8
iter = 4638, queue = 7781, heur = -8.0, depth = 8
iter = 4639, queue = 7784, heur = -8.0, depth = 9
iter = 4640, queue = 7787, heur = -8.0, depth = 8
iter = 4641, queue = 7788, heur = -8.0, depth = 8
iter = 4642, queue = 7790, heur = -8.0, depth = 9
iter = 4643, queue = 7792, heur = -8.0, depth = 8
iter = 4644, queue = 7794, heur = -8.0, depth = 8
iter = 4645, queue = 7795, heur = -8.0, depth = 8
iter = 4646, queue = 7796, heur = -8.0, depth = 8
iter = 4647, queue = 7797, heur = -8.0, depth = 8
iter = 4648, queue = 7800, heur = -8.0, depth = 8
iter = 4649, queue = 7803, heur = -8.0, depth = 8
iter = 4650, queue = 7805, heur = -8.0, depth = 8
iter = 4651, queue = 7806, heur = -8.0, depth = 8
iter = 4652, queue = 7808, heur = -8.0, depth = 8
iter = 4653, queue = 7810, heur = -8.0, depth = 8
iter = 4654, queue = 7810, heur = -8.0, depth = 8
iter = 4655, queue = 7810, heur = -8.0, depth = 8
iter = 4656, queue = 7813, heur = -8.0, depth = 8
iter = 4657, queue = 7816, heur = -8.0, depth = 8
iter = 4658, queue = 7817, heur = -8.0, depth = 8
iter = 4659, queue = 7819, heur = -8.0, depth = 8
```

```
iter = 4660, queue = 7820, heur = -8.0, depth = 8
iter = 4661, queue = 7823, heur = -8.0, depth = 8
iter = 4662, queue = 7823, heur = -8.0, depth = 8
iter = 4663, queue = 7823, heur = -8.0, depth = 8
iter = 4664, queue = 7822, heur = -8.0, depth = 8
iter = 4665, queue = 7823, heur = -8.0, depth = 8
iter = 4666, queue = 7825, heur = -8.0, depth = 8
iter = 4667, queue = 7826, heur = -8.0, depth = 8
iter = 4668, queue = 7827, heur = -8.0, depth = 8
iter = 4669, queue = 7830, heur = -8.0, depth = 8
iter = 4670, queue = 7833, heur = -8.0, depth = 8
iter = 4671, queue = 7836, heur = -8.0, depth = 8
iter = 4672, queue = 7838, heur = -8.0, depth = 8
iter = 4673, queue = 7841, heur = -8.0, depth = 8
iter = 4674, queue = 7843, heur = -8.0, depth = 8
iter = 4675, queue = 7844, heur = -8.0, depth = 8
iter = 4676, queue = 7847, heur = -8.0, depth = 8
iter = 4677, queue = 7850, heur = -8.0, depth = 8
iter = 4678, queue = 7853, heur = -8.0, depth = 8
iter = 4679, queue = 7856, heur = -8.0, depth = 8
iter = 4680, queue = 7855, heur = -8.0, depth = 8
iter = 4681, queue = 7858, heur = -8.0, depth = 8
iter = 4682, queue = 7859, heur = -8.0, depth = 8
iter = 4683, queue = 7860, heur = -8.0, depth = 8
iter = 4684, queue = 7859, heur = -8.0, depth = 9
iter = 4685, queue = 7861, heur = -8.0, depth = 8
iter = 4686, queue = 7862, heur = -8.0, depth = 8
iter = 4687, queue = 7865, heur = -8.0, depth = 8
iter = 4688, queue = 7868, heur = -8.0, depth = 8
iter = 4689, queue = 7868, heur = -8.0, depth = 8
iter = 4690, queue = 7871, heur = -8.0, depth = 8
iter = 4691, queue = 7872, heur = -8.0, depth = 8
iter = 4692, queue = 7873, heur = -8.0, depth = 8
iter = 4693, queue = 7876, heur = -8.0, depth = 8
iter = 4694, queue = 7879, heur = -8.0, depth = 8
iter = 4695, queue = 7881, heur = -8.0, depth = 8
iter = 4696, queue = 7884, heur = -8.0, depth = 8
iter = 4697, queue = 7885, heur = -8.0, depth = 8
iter = 4698, queue = 7887, heur = -8.0, depth = 8
iter = 4699, queue = 7890, heur = -8.0, depth = 8
iter = 4700, queue = 7893, heur = -8.0, depth = 10
iter = 4701, queue = 7896, heur = -8.0, depth = 8
iter = 4702, queue = 7897, heur = -8.0, depth = 8
iter = 4703, queue = 7900, heur = -8.0, depth = 8
iter = 4704, queue = 7901, heur = -8.0, depth = 8
iter = 4705, queue = 7904, heur = -8.0, depth = 8
iter = 4706, queue = 7906, heur = -8.0, depth = 8
iter = 4707, queue = 7907, heur = -8.0, depth = 8
iter = 4708, queue = 7908, heur = -8.0, depth = 8
iter = 4709, queue = 7911, heur = -8.0, depth = 8
iter = 4710, queue = 7914, heur = -8.0, depth = 8
iter = 4711, queue = 7913, heur = -8.0, depth = 8
iter = 4712, queue = 7914, heur = -8.0, depth = 8
iter = 4713, queue = 7917, heur = -8.0, depth = 8
iter = 4714, queue = 7920, heur = -8.0, depth = 8
iter = 4715, queue = 7923, heur = -8.0, depth = 8
iter = 4716, queue = 7924, heur = -8.0, depth = 8
iter = 4717, queue = 7925, heur = -8.0, depth = 8
iter = 4718, queue = 7926, heur = -8.0, depth = 8
```

```
iter = 4719, queue = 7927, heur = -8.0, depth = 8
iter = 4720, queue = 7929, heur = -8.0, depth = 8
iter = 4721, queue = 7932, heur = -8.0, depth = 8
iter = 4722, queue = 7931, heur = -8.0, depth = 8
iter = 4723, queue = 7933, heur = -8.0, depth = 8
iter = 4724, queue = 7935, heur = -8.0, depth = 8
iter = 4725, queue = 7935, heur = -8.0, depth = 8
iter = 4726, queue = 7938, heur = -8.0, depth = 8
iter = 4727, queue = 7938, heur = -8.0, depth = 8
iter = 4728, queue = 7941, heur = -8.0, depth = 8
iter = 4729, queue = 7942, heur = -8.0, depth = 8
iter = 4730, queue = 7943, heur = -8.0, depth = 8
iter = 4731, queue = 7944, heur = -8.0, depth = 8
iter = 4732, queue = 7947, heur = -8.0, depth = 8
iter = 4733, queue = 7947, heur = -8.0, depth = 8
iter = 4734, queue = 7950, heur = -8.0, depth = 8
iter = 4735, queue = 7953, heur = -8.0, depth = 8
iter = 4736, queue = 7954, heur = -8.0, depth = 8
iter = 4737, queue = 7956, heur = -8.0, depth = 8
iter = 4738, queue = 7957, heur = -8.0, depth = 8
iter = 4739, queue = 7960, heur = -8.0, depth = 8
iter = 4740, queue = 7961, heur = -8.0, depth = 8
iter = 4741, queue = 7964, heur = -8.0, depth = 8
iter = 4742, queue = 7967, heur = -8.0, depth = 8
iter = 4743, queue = 7970, heur = -8.0, depth = 8
iter = 4744, queue = 7973, heur = -8.0, depth = 8
iter = 4745, queue = 7974, heur = -8.0, depth = 8
iter = 4746, queue = 7977, heur = -8.0, depth = 8
iter = 4747, queue = 7978, heur = -8.0, depth = 8
iter = 4748, queue = 7979, heur = -8.0, depth = 8
iter = 4749, queue = 7982, heur = -8.0, depth = 8
iter = 4750, queue = 7985, heur = -8.0, depth = 8
iter = 4751, queue = 7984, heur = -8.0, depth = 8
iter = 4752, queue = 7987, heur = -8.0, depth = 8
iter = 4753, queue = 7990, heur = -8.0, depth = 8
iter = 4754, queue = 7993, heur = -8.0, depth = 8
iter = 4755, queue = 7993, heur = -8.0, depth = 8
iter = 4756, queue = 7993, heur = -8.0, depth = 8
iter = 4757, queue = 7996, heur = -8.0, depth = 9
iter = 4758, queue = 7999, heur = -8.0, depth = 9
iter = 4759, queue = 8000, heur = -8.0, depth = 9
iter = 4760, queue = 8003, heur = -8.0, depth = 8
iter = 4761, queue = 8006, heur = -8.0, depth = 8
iter = 4762, queue = 8007, heur = -8.0, depth = 8
iter = 4763, queue = 8008, heur = -8.0, depth = 8
iter = 4764, queue = 8008, heur = -8.0, depth = 9
iter = 4765, queue = 8011, heur = -8.0, depth = 9
iter = 4766, queue = 8014, heur = -8.0, depth = 8
iter = 4767, queue = 8015, heur = -8.0, depth = 9
iter = 4768, queue = 8018, heur = -8.0, depth = 9
iter = 4769, queue = 8021, heur = -8.0, depth = 8
iter = 4770, queue = 8022, heur = -8.0, depth = 9
iter = 4771, queue = 8025, heur = -8.0, depth = 8
iter = 4772, queue = 8024, heur = -8.0, depth = 9
iter = 4773, queue = 8025, heur = -8.0, depth = 9
iter = 4774, queue = 8027, heur = -8.0, depth = 8
iter = 4775, queue = 8026, heur = -8.0, depth = 8
iter = 4776, queue = 8029, heur = -8.0, depth = 8
iter = 4777, queue = 8032, heur = -8.0, depth = 9
```

```
iter = 4778, queue = 8035, heur = -8.0, depth = 8
iter = 4779, queue = 8036, heur = -8.0, depth = 8
iter = 4780, queue = 8037, heur = -8.0, depth = 8
iter = 4781, queue = 8038, heur = -8.0, depth = 9
iter = 4782, queue = 8037, heur = -8.0, depth = 8
iter = 4783, queue = 8038, heur = -8.0, depth = 8
iter = 4784, queue = 8040, heur = -8.0, depth = 8
iter = 4785, queue = 8042, heur = -8.0, depth = 9
iter = 4786, queue = 8043, heur = -8.0, depth = 8
iter = 4787, queue = 8044, heur = -8.0, depth = 8
iter = 4788, queue = 8047, heur = -8.0, depth = 8
iter = 4789, queue = 8049, heur = -8.0, depth = 8
iter = 4790, queue = 8052, heur = -8.0, depth = 8
iter = 4791, queue = 8053, heur = -8.0, depth = 8
iter = 4792, queue = 8056, heur = -8.0, depth = 8
iter = 4793, queue = 8056, heur = -8.0, depth = 8
iter = 4794, queue = 8057, heur = -8.0, depth = 8
iter = 4795, queue = 8059, heur = -8.0, depth = 8
iter = 4796, queue = 8060, heur = -8.0, depth = 8
iter = 4797, queue = 8063, heur = -8.0, depth = 8
iter = 4798, queue = 8066, heur = -8.0, depth = 8
iter = 4799, queue = 8069, heur = -8.0, depth = 8
iter = 4800, queue = 8072, heur = -8.0, depth = 8
iter = 4801, queue = 8073, heur = -8.0, depth = 8
iter = 4802, queue = 8075, heur = -8.0, depth = 8
iter = 4803, queue = 8074, heur = -8.0, depth = 8
iter = 4804, queue = 8076, heur = -8.0, depth = 8
iter = 4805, queue = 8078, heur = -8.0, depth = 8
iter = 4806, queue = 8081, heur = -8.0, depth = 8
iter = 4807, queue = 8083, heur = -8.0, depth = 8
iter = 4808, queue = 8086, heur = -8.0, depth = 9
iter = 4809, queue = 8087, heur = -8.0, depth = 8
iter = 4810, queue = 8090, heur = -8.0, depth = 8
iter = 4811, queue = 8093, heur = -8.0, depth = 8
iter = 4812, queue = 8096, heur = -8.0, depth = 8
iter = 4813, queue = 8097, heur = -8.0, depth = 8
iter = 4814, queue = 8098, heur = -8.0, depth = 8
iter = 4815, queue = 8101, heur = -8.0, depth = 8
iter = 4816, queue = 8103, heur = -8.0, depth = 8
iter = 4817, queue = 8105, heur = -8.0, depth = 8
iter = 4818, queue = 8107, heur = -8.0, depth = 8
iter = 4819, queue = 8108, heur = -8.0, depth = 8
iter = 4820, queue = 8107, heur = -8.0, depth = 8
iter = 4821, queue = 8110, heur = -8.0, depth = 8
iter = 4822, queue = 8112, heur = -8.0, depth = 8
iter = 4823, queue = 8114, heur = -8.0, depth = 8
iter = 4824, queue = 8115, heur = -8.0, depth = 8
iter = 4825, queue = 8116, heur = -8.0, depth = 8
iter = 4826, queue = 8118, heur = -8.0, depth = 8
iter = 4827, queue = 8119, heur = -8.0, depth = 9
iter = 4828, queue = 8122, heur = -8.0, depth = 8
iter = 4829, queue = 8124, heur = -8.0, depth = 8
iter = 4830, queue = 8126, heur = -8.0, depth = 8
iter = 4831, queue = 8128, heur = -8.0, depth = 8
iter = 4832, queue = 8131, heur = -8.0, depth = 8
iter = 4833, queue = 8133, heur = -8.0, depth = 8
iter = 4834, queue = 8134, heur = -8.0, depth = 9
iter = 4835, queue = 8136, heur = -8.0, depth = 8
iter = 4836, queue = 8135, heur = -8.0, depth = 9
```

```
iter = 4837, queue = 8138, heur = -8.0, depth = 8
iter = 4838, queue = 8141, heur = -8.0, depth = 8
iter = 4839, queue = 8142, heur = -8.0, depth = 8
iter = 4840, queue = 8145, heur = -8.0, depth = 9
iter = 4841, queue = 8148, heur = -8.0, depth = 9
iter = 4842, queue = 8151, heur = -8.0, depth = 8
iter = 4843, queue = 8151, heur = -8.0, depth = 8
iter = 4844, queue = 8154, heur = -8.0, depth = 8
iter = 4845, queue = 8156, heur = -8.0, depth = 8
iter = 4846, queue = 8159, heur = -8.0, depth = 8
iter = 4847, queue = 8161, heur = -8.0, depth = 8
iter = 4848, queue = 8161, heur = -8.0, depth = 8
iter = 4849, queue = 8162, heur = -8.0, depth = 8
iter = 4850, queue = 8161, heur = -8.0, depth = 8
iter = 4851, queue = 8164, heur = -8.0, depth = 8
iter = 4852, queue = 8167, heur = -8.0, depth = 8
iter = 4853, queue = 8168, heur = -8.0, depth = 8
iter = 4854, queue = 8170, heur = -8.0, depth = 8
iter = 4855, queue = 8173, heur = -8.0, depth = 8
iter = 4856, queue = 8172, heur = -8.0, depth = 8
iter = 4857, queue = 8173, heur = -8.0, depth = 8
iter = 4858, queue = 8174, heur = -8.0, depth = 8
iter = 4859, queue = 8177, heur = -8.0, depth = 8
iter = 4860, queue = 8176, heur = -8.0, depth = 8
iter = 4861, queue = 8178, heur = -8.0, depth = 8
iter = 4862, queue = 8181, heur = -8.0, depth = 9
iter = 4863, queue = 8183, heur = -8.0, depth = 8
iter = 4864, queue = 8184, heur = -8.0, depth = 8
iter = 4865, queue = 8185, heur = -8.0, depth = 10
iter = 4866, queue = 8186, heur = -8.0, depth = 8
iter = 4867, queue = 8187, heur = -8.0, depth = 10
iter = 4868, queue = 8186, heur = -8.0, depth = 10
iter = 4869, queue = 8189, heur = -8.0, depth = 8
iter = 4870, queue = 8190, heur = -8.0, depth = 8
iter = 4871, queue = 8193, heur = -8.0, depth = 8
iter = 4872, queue = 8194, heur = -8.0, depth = 10
iter = 4873, queue = 8195, heur = -8.0, depth = 8
iter = 4874, queue = 8197, heur = -8.0, depth = 9
iter = 4875, queue = 8200, heur = -8.0, depth = 8
iter = 4876, queue = 8203, heur = -8.0, depth = 8
iter = 4877, queue = 8204, heur = -8.0, depth = 8
iter = 4878, queue = 8207, heur = -8.0, depth = 8
iter = 4879, queue = 8206, heur = -8.0, depth = 8
iter = 4880, queue = 8209, heur = -8.0, depth = 8
iter = 4881, queue = 8211, heur = -8.0, depth = 8
iter = 4882, queue = 8212, heur = -8.0, depth = 8
iter = 4883, queue = 8213, heur = -8.0, depth = 8
iter = 4884, queue = 8214, heur = -8.0, depth = 8
iter = 4885, queue = 8215, heur = -8.0, depth = 8
iter = 4886, queue = 8216, heur = -8.0, depth = 8
iter = 4887, queue = 8215, heur = -8.0, depth = 9
iter = 4888, queue = 8218, heur = -8.0, depth = 8
iter = 4889, queue = 8220, heur = -8.0, depth = 8
iter = 4890, queue = 8223, heur = -8.0, depth = 8
iter = 4891, queue = 8224, heur = -8.0, depth = 8
iter = 4892, queue = 8224, heur = -8.0, depth = 8
iter = 4893, queue = 8226, heur = -8.0, depth = 8
iter = 4894, queue = 8229, heur = -8.0, depth = 9
iter = 4895, queue = 8230, heur = -8.0, depth = 8
```

```
iter = 4896, queue = 8231, heur = -8.0, depth = 8
iter = 4897, queue = 8232, heur = -8.0, depth = 9
iter = 4898, queue = 8235, heur = -8.0, depth = 9
iter = 4899, queue = 8237, heur = -8.0, depth = 9
iter = 4900, queue = 8239, heur = -8.0, depth = 8
iter = 4901, queue = 8240, heur = -8.0, depth = 8
iter = 4902, queue = 8241, heur = -8.0, depth = 8
iter = 4903, queue = 8242, heur = -8.0, depth = 9
iter = 4904, queue = 8244, heur = -8.0, depth = 8
iter = 4905, queue = 8246, heur = -8.0, depth = 8
iter = 4906, queue = 8246, heur = -8.0, depth = 8
iter = 4907, queue = 8249, heur = -8.0, depth = 8
iter = 4908, queue = 8250, heur = -8.0, depth = 8
iter = 4909, queue = 8252, heur = -8.0, depth = 8
iter = 4910, queue = 8254, heur = -8.0, depth = 8
iter = 4911, queue = 8255, heur = -8.0, depth = 8
iter = 4912, queue = 8258, heur = -8.0, depth = 8
iter = 4913, queue = 8261, heur = -8.0, depth = 8
iter = 4914, queue = 8264, heur = -8.0, depth = 9
iter = 4915, queue = 8267, heur = -8.0, depth = 8
iter = 4916, queue = 8268, heur = -8.0, depth = 8
iter = 4917, queue = 8267, heur = -8.0, depth = 8
iter = 4918, queue = 8269, heur = -8.0, depth = 9
iter = 4919, queue = 8272, heur = -8.0, depth = 8
iter = 4920, queue = 8275, heur = -8.0, depth = 8
iter = 4921, queue = 8276, heur = -8.0, depth = 8
iter = 4922, queue = 8279, heur = -8.0, depth = 9
iter = 4923, queue = 8280, heur = -8.0, depth = 8
iter = 4924, queue = 8281, heur = -8.0, depth = 8
iter = 4925, queue = 8280, heur = -8.0, depth = 8
iter = 4926, queue = 8282, heur = -8.0, depth = 9
iter = 4927, queue = 8283, heur = -8.0, depth = 8
iter = 4928, queue = 8283, heur = -8.0, depth = 8
iter = 4929, queue = 8282, heur = -8.0, depth = 9
iter = 4930, queue = 8282, heur = -8.0, depth = 9
iter = 4931, queue = 8283, heur = -8.0, depth = 8
iter = 4932, queue = 8284, heur = -8.0, depth = 8
iter = 4933, queue = 8287, heur = -8.0, depth = 8
iter = 4934, queue = 8288, heur = -8.0, depth = 8
iter = 4935, queue = 8291, heur = -8.0, depth = 8
iter = 4936, queue = 8292, heur = -8.0, depth = 8
iter = 4937, queue = 8291, heur = -8.0, depth = 8
iter = 4938, queue = 8290, heur = -8.0, depth = 9
iter = 4939, queue = 8292, heur = -8.0, depth = 8
iter = 4940, queue = 8294, heur = -8.0, depth = 8
iter = 4941, queue = 8297, heur = -8.0, depth = 8
iter = 4942, queue = 8297, heur = -8.0, depth = 8
iter = 4943, queue = 8298, heur = -8.0, depth = 8
iter = 4944, queue = 8301, heur = -8.0, depth = 8
iter = 4945, queue = 8301, heur = -8.0, depth = 8
iter = 4946, queue = 8302, heur = -8.0, depth = 8
iter = 4947, queue = 8303, heur = -8.0, depth = 8
iter = 4948, queue = 8304, heur = -8.0, depth = 9
iter = 4949, queue = 8307, heur = -8.0, depth = 8
iter = 4950, queue = 8309, heur = -8.0, depth = 8
iter = 4951, queue = 8309, heur = -8.0, depth = 8
iter = 4952, queue = 8310, heur = -8.0, depth = 8
iter = 4953, queue = 8309, heur = -8.0, depth = 8
iter = 4954, queue = 8310, heur = -8.0, depth = 8
```

```
iter = 4955, queue = 8313, heur = -8.0, depth = 8
iter = 4956, queue = 8314, heur = -8.0, depth = 8
iter = 4957, queue = 8315, heur = -8.0, depth = 8
iter = 4958, queue = 8316, heur = -8.0, depth = 8
iter = 4959, queue = 8315, heur = -8.0, depth = 8
iter = 4960, queue = 8316, heur = -8.0, depth = 8
iter = 4961, queue = 8317, heur = -8.0, depth = 8
iter = 4962, queue = 8318, heur = -8.0, depth = 9
iter = 4963, queue = 8321, heur = -8.0, depth = 9
iter = 4964, queue = 8323, heur = -8.0, depth = 8
iter = 4965, queue = 8326, heur = -8.0, depth = 9
iter = 4966, queue = 8328, heur = -8.0, depth = 9
iter = 4967, queue = 8329, heur = -8.0, depth = 8
iter = 4968, queue = 8332, heur = -8.0, depth = 8
iter = 4969, queue = 8333, heur = -8.0, depth = 8
iter = 4970, queue = 8334, heur = -8.0, depth = 9
iter = 4971, queue = 8337, heur = -8.0, depth = 8
iter = 4972, queue = 8337, heur = -8.0, depth = 8
iter = 4973, queue = 8338, heur = -8.0, depth = 9
iter = 4974, queue = 8337, heur = -8.0, depth = 8
iter = 4975, queue = 8338, heur = -8.0, depth = 8
iter = 4976, queue = 8341, heur = -8.0, depth = 8
iter = 4977, queue = 8342, heur = -8.0, depth = 9
iter = 4978, queue = 8344, heur = -8.0, depth = 8
iter = 4979, queue = 8344, heur = -8.0, depth = 8
iter = 4980, queue = 8347, heur = -8.0, depth = 8
iter = 4981, queue = 8348, heur = -8.0, depth = 8
iter = 4982, queue = 8349, heur = -8.0, depth = 8
iter = 4983, queue = 8352, heur = -8.0, depth = 8
iter = 4984, queue = 8353, heur = -8.0, depth = 8
iter = 4985, queue = 8354, heur = -8.0, depth = 8
iter = 4986, queue = 8354, heur = -8.0, depth = 8
iter = 4987, queue = 8356, heur = -8.0, depth = 8
iter = 4988, queue = 8359, heur = -8.0, depth = 8
iter = 4989, queue = 8362, heur = -8.0, depth = 8
iter = 4990, queue = 8361, heur = -8.0, depth = 9
iter = 4991, queue = 8362, heur = -8.0, depth = 9
iter = 4992, queue = 8363, heur = -8.0, depth = 8
iter = 4993, queue = 8365, heur = -8.0, depth = 8
iter = 4994, queue = 8368, heur = -8.0, depth = 8
iter = 4995, queue = 8371, heur = -8.0, depth = 8
iter = 4996, queue = 8372, heur = -8.0, depth = 8
iter = 4997, queue = 8375, heur = -8.0, depth = 8
iter = 4998, queue = 8376, heur = -8.0, depth = 8
iter = 4999, queue = 8377, heur = -8.0, depth = 8
iter = 5000, queue = 8378, heur = -8.0, depth = 8
iter = 5001, queue = 8377, heur = -8.0, depth = 9
iter = 5002, queue = 8378, heur = -8.0, depth = 8
iter = 5003, queue = 8381, heur = -8.0, depth = 8
iter = 5004, queue = 8383, heur = -8.0, depth = 9
iter = 5005, queue = 8384, heur = -8.0, depth = 8
iter = 5006, queue = 8385, heur = -8.0, depth = 8
iter = 5007, queue = 8387, heur = -8.0, depth = 8
iter = 5008, queue = 8390, heur = -8.0, depth = 8
iter = 5009, queue = 8390, heur = -8.0, depth = 8
iter = 5010, queue = 8393, heur = -8.0, depth = 8
iter = 5011, queue = 8396, heur = -8.0, depth = 8
iter = 5012, queue = 8396, heur = -8.0, depth = 8
iter = 5013, queue = 8397, heur = -8.0, depth = 8
```

```
iter = 5014, queue = 8398, heur = -8.0, depth = 8
iter = 5015, queue = 8399, heur = -8.0, depth = 8
iter = 5016, queue = 8400, heur = -8.0, depth = 8
iter = 5017, queue = 8401, heur = -8.0, depth = 8
iter = 5018, queue = 8403, heur = -8.0, depth = 8
iter = 5019, queue = 8404, heur = -8.0, depth = 8
iter = 5020, queue = 8405, heur = -8.0, depth = 8
iter = 5021, queue = 8406, heur = -8.0, depth = 8
iter = 5022, queue = 8409, heur = -8.0, depth = 8
iter = 5023, queue = 8412, heur = -8.0, depth = 8
iter = 5024, queue = 8413, heur = -8.0, depth = 8
iter = 5025, queue = 8414, heur = -8.0, depth = 8
iter = 5026, queue = 8415, heur = -8.0, depth = 8
iter = 5027, queue = 8415, heur = -8.0, depth = 8
iter = 5028, queue = 8418, heur = -8.0, depth = 8
iter = 5029, queue = 8421, heur = -8.0, depth = 8
iter = 5030, queue = 8420, heur = -8.0, depth = 8
iter = 5031, queue = 8423, heur = -8.0, depth = 8
iter = 5032, queue = 8424, heur = -8.0, depth = 8
iter = 5033, queue = 8426, heur = -8.0, depth = 8
iter = 5034, queue = 8426, heur = -8.0, depth = 9
iter = 5035, queue = 8426, heur = -8.0, depth = 8
iter = 5036, queue = 8427, heur = -8.0, depth = 8
iter = 5037, queue = 8427, heur = -8.0, depth = 8
iter = 5038, queue = 8428, heur = -8.0, depth = 8
iter = 5039, queue = 8427, heur = -8.0, depth = 8
iter = 5040, queue = 8428, heur = -8.0, depth = 8
iter = 5041, queue = 8430, heur = -8.0, depth = 8
iter = 5042, queue = 8432, heur = -8.0, depth = 8
iter = 5043, queue = 8433, heur = -8.0, depth = 8
iter = 5044, queue = 8435, heur = -8.0, depth = 8
iter = 5045, queue = 8437, heur = -8.0, depth = 8
iter = 5046, queue = 8439, heur = -8.0, depth = 8
iter = 5047, queue = 8439, heur = -8.0, depth = 8
iter = 5048, queue = 8440, heur = -8.0, depth = 8
iter = 5049, queue = 8440, heur = -8.0, depth = 8
iter = 5050, queue = 8441, heur = -8.0, depth = 8
iter = 5051, queue = 8443, heur = -8.0, depth = 8
iter = 5052, queue = 8444, heur = -8.0, depth = 8
iter = 5053, queue = 8447, heur = -8.0, depth = 8
iter = 5054, queue = 8448, heur = -8.0, depth = 8
iter = 5055, queue = 8450, heur = -8.0, depth = 9
iter = 5056, queue = 8453, heur = -8.0, depth = 8
iter = 5057, queue = 8454, heur = -8.0, depth = 8
iter = 5058, queue = 8455, heur = -8.0, depth = 9
iter = 5059, queue = 8458, heur = -8.0, depth = 8
iter = 5060, queue = 8461, heur = -8.0, depth = 8
iter = 5061, queue = 8464, heur = -8.0, depth = 8
iter = 5062, queue = 8465, heur = -8.0, depth = 9
iter = 5063, queue = 8468, heur = -8.0, depth = 9
iter = 5064, queue = 8467, heur = -8.0, depth = 8
iter = 5065, queue = 8469, heur = -8.0, depth = 8
iter = 5066, queue = 8470, heur = -8.0, depth = 8
iter = 5067, queue = 8472, heur = -8.0, depth = 8
iter = 5068, queue = 8473, heur = -8.0, depth = 8
iter = 5069, queue = 8474, heur = -8.0, depth = 8
iter = 5070, queue = 8477, heur = -8.0, depth = 9
iter = 5071, queue = 8480, heur = -8.0, depth = 8
iter = 5072, queue = 8481, heur = -8.0, depth = 8
```

```
iter = 5073, queue = 8481, heur = -8.0, depth = 8
iter = 5074, queue = 8482, heur = -8.0, depth = 8
iter = 5075, queue = 8483, heur = -8.0, depth = 8
iter = 5076, queue = 8483, heur = -8.0, depth = 8
iter = 5077, queue = 8485, heur = -8.0, depth = 8
iter = 5078, queue = 8485, heur = -8.0, depth = 8
iter = 5079, queue = 8486, heur = -8.0, depth = 8
iter = 5080, queue = 8489, heur = -8.0, depth = 8
iter = 5081, queue = 8490, heur = -8.0, depth = 8
iter = 5082, queue = 8493, heur = -8.0, depth = 8
iter = 5083, queue = 8494, heur = -8.0, depth = 8
iter = 5084, queue = 8496, heur = -8.0, depth = 8
iter = 5085, queue = 8499, heur = -8.0, depth = 8
iter = 5086, queue = 8500, heur = -8.0, depth = 8
iter = 5087, queue = 8500, heur = -8.0, depth = 8
iter = 5088, queue = 8501, heur = -8.0, depth = 8
iter = 5089, queue = 8501, heur = -8.0, depth = 8
iter = 5090, queue = 8502, heur = -8.0, depth = 8
iter = 5091, queue = 8503, heur = -8.0, depth = 8
iter = 5092, queue = 8506, heur = -8.0, depth = 9
iter = 5093, queue = 8509, heur = -8.0, depth = 8
iter = 5094, queue = 8510, heur = -8.0, depth = 8
iter = 5095, queue = 8510, heur = -8.0, depth = 8
iter = 5096, queue = 8513, heur = -8.0, depth = 8
iter = 5097, queue = 8515, heur = -8.0, depth = 9
iter = 5098, queue = 8516, heur = -8.0, depth = 8
iter = 5099, queue = 8517, heur = -8.0, depth = 8
iter = 5100, queue = 8518, heur = -8.0, depth = 8
iter = 5101, queue = 8519, heur = -8.0, depth = 8
iter = 5102, queue = 8522, heur = -8.0, depth = 8
iter = 5103, queue = 8523, heur = -8.0, depth = 8
iter = 5104, queue = 8523, heur = -8.0, depth = 8
iter = 5105, queue = 8525, heur = -8.0, depth = 8
iter = 5106, queue = 8526, heur = -8.0, depth = 8
iter = 5107, queue = 8528, heur = -8.0, depth = 8
iter = 5108, queue = 8529, heur = -8.0, depth = 8
iter = 5109, queue = 8530, heur = -8.0, depth = 10
iter = 5110, queue = 8531, heur = -8.0, depth = 8
iter = 5111, queue = 8532, heur = -8.0, depth = 8
iter = 5112, queue = 8535, heur = -8.0, depth = 8
iter = 5113, queue = 8536, heur = -8.0, depth = 8
iter = 5114, queue = 8537, heur = -8.0, depth = 8
iter = 5115, queue = 8538, heur = -8.0, depth = 8
iter = 5116, queue = 8539, heur = -8.0, depth = 8
iter = 5117, queue = 8542, heur = -8.0, depth = 10
iter = 5118, queue = 8544, heur = -8.0, depth = 8
iter = 5119, queue = 8547, heur = -8.0, depth = 8
iter = 5120, queue = 8548, heur = -8.0, depth = 8
iter = 5121, queue = 8549, heur = -8.0, depth = 8
iter = 5122, queue = 8550, heur = -8.0, depth = 8
iter = 5123, queue = 8551, heur = -8.0, depth = 9
iter = 5124, queue = 8554, heur = -8.0, depth = 8
iter = 5125, queue = 8557, heur = -8.0, depth = 8
iter = 5126, queue = 8558, heur = -8.0, depth = 8
iter = 5127, queue = 8559, heur = -8.0, depth = 8
iter = 5128, queue = 8562, heur = -8.0, depth = 8
iter = 5129, queue = 8565, heur = -8.0, depth = 8
iter = 5130, queue = 8566, heur = -8.0, depth = 8
iter = 5131, queue = 8566, heur = -8.0, depth = 8
```

```
iter = 5132, queue = 8569, heur = -8.0, depth = 8
iter = 5133, queue = 8569, heur = -8.0, depth = 8
iter = 5134, queue = 8570, heur = -8.0, depth = 8
iter = 5135, queue = 8571, heur = -8.0, depth = 8
iter = 5136, queue = 8571, heur = -8.0, depth = 8
iter = 5137, queue = 8574, heur = -8.0, depth = 8
iter = 5138, queue = 8577, heur = -8.0, depth = 8
iter = 5139, queue = 8576, heur = -8.0, depth = 8
iter = 5140, queue = 8577, heur = -8.0, depth = 8
iter = 5141, queue = 8578, heur = -8.0, depth = 8
iter = 5142, queue = 8577, heur = -8.0, depth = 8
iter = 5143, queue = 8578, heur = -8.0, depth = 8
iter = 5144, queue = 8579, heur = -8.0, depth = 8
iter = 5145, queue = 8580, heur = -8.0, depth = 8
iter = 5146, queue = 8580, heur = -8.0, depth = 8
iter = 5147, queue = 8581, heur = -8.0, depth = 8
iter = 5148, queue = 8582, heur = -8.0, depth = 8
iter = 5149, queue = 8585, heur = -8.0, depth = 8
iter = 5150, queue = 8588, heur = -8.0, depth = 8
iter = 5151, queue = 8591, heur = -8.0, depth = 8
iter = 5152, queue = 8592, heur = -8.0, depth = 8
iter = 5153, queue = 8593, heur = -8.0, depth = 8
iter = 5154, queue = 8596, heur = -8.0, depth = 8
iter = 5155, queue = 8597, heur = -8.0, depth = 8
iter = 5156, queue = 8598, heur = -8.0, depth = 8
iter = 5157, queue = 8599, heur = -8.0, depth = 8
iter = 5158, queue = 8602, heur = -8.0, depth = 8
iter = 5159, queue = 8605, heur = -8.0, depth = 8
iter = 5160, queue = 8606, heur = -8.0, depth = 8
iter = 5161, queue = 8607, heur = -8.0, depth = 8
iter = 5162, queue = 8608, heur = -8.0, depth = 8
iter = 5163, queue = 8609, heur = -8.0, depth = 8
iter = 5164, queue = 8610, heur = -8.0, depth = 8
iter = 5165, queue = 8611, heur = -8.0, depth = 8
iter = 5166, queue = 8613, heur = -8.0, depth = 8
iter = 5167, queue = 8614, heur = -8.0, depth = 8
iter = 5168, queue = 8614, heur = -8.0, depth = 8
iter = 5169, queue = 8614, heur = -8.0, depth = 8
iter = 5170, queue = 8615, heur = -8.0, depth = 8
iter = 5171, queue = 8618, heur = -8.0, depth = 8
iter = 5172, queue = 8618, heur = -8.0, depth = 8
iter = 5173, queue = 8619, heur = -8.0, depth = 9
iter = 5174, queue = 8620, heur = -8.0, depth = 8
iter = 5175, queue = 8619, heur = -8.0, depth = 8
iter = 5176, queue = 8621, heur = -8.0, depth = 8
iter = 5177, queue = 8622, heur = -8.0, depth = 8
iter = 5178, queue = 8624, heur = -8.0, depth = 9
iter = 5179, queue = 8625, heur = -8.0, depth = 8
iter = 5180, queue = 8628, heur = -8.0, depth = 9
iter = 5181, queue = 8631, heur = -8.0, depth = 8
iter = 5182, queue = 8634, heur = -8.0, depth = 9
iter = 5183, queue = 8635, heur = -8.0, depth = 9
iter = 5184, queue = 8636, heur = -8.0, depth = 9
iter = 5185, queue = 8637, heur = -8.0, depth = 8
iter = 5186, queue = 8639, heur = -8.0, depth = 8
iter = 5187, queue = 8639, heur = -8.0, depth = 8
iter = 5188, queue = 8640, heur = -8.0, depth = 8
iter = 5189, queue = 8643, heur = -8.0, depth = 8
iter = 5190, queue = 8646, heur = -8.0, depth = 9
```

```
iter = 5191, queue = 8648, heur = -8.0, depth = 9
iter = 5192, queue = 8648, heur = -8.0, depth = 9
iter = 5193, queue = 8649, heur = -8.0, depth = 8
iter = 5194, queue = 8650, heur = -8.0, depth = 9
iter = 5195, queue = 8652, heur = -8.0, depth = 8
iter = 5196, queue = 8655, heur = -8.0, depth = 8
iter = 5197, queue = 8655, heur = -8.0, depth = 8
iter = 5198, queue = 8656, heur = -8.0, depth = 8
iter = 5199, queue = 8657, heur = -8.0, depth = 8
iter = 5200, queue = 8657, heur = -8.0, depth = 8
iter = 5201, queue = 8660, heur = -8.0, depth = 9
iter = 5202, queue = 8660, heur = -8.0, depth = 8
iter = 5203, queue = 8663, heur = -8.0, depth = 8
iter = 5204, queue = 8665, heur = -8.0, depth = 8
iter = 5205, queue = 8668, heur = -8.0, depth = 8
iter = 5206, queue = 8668, heur = -8.0, depth = 9
iter = 5207, queue = 8669, heur = -8.0, depth = 8
iter = 5208, queue = 8672, heur = -8.0, depth = 9
iter = 5209, queue = 8673, heur = -8.0, depth = 8
iter = 5210, queue = 8676, heur = -8.0, depth = 8
iter = 5211, queue = 8679, heur = -8.0, depth = 8
iter = 5212, queue = 8680, heur = -8.0, depth = 9
iter = 5213, queue = 8682, heur = -8.0, depth = 9
iter = 5214, queue = 8684, heur = -8.0, depth = 8
iter = 5215, queue = 8685, heur = -8.0, depth = 8
iter = 5216, queue = 8688, heur = -8.0, depth = 8
iter = 5217, queue = 8691, heur = -8.0, depth = 9
iter = 5218, queue = 8694, heur = -8.0, depth = 8
iter = 5219, queue = 8695, heur = -8.0, depth = 8
iter = 5220, queue = 8695, heur = -8.0, depth = 8
iter = 5221, queue = 8696, heur = -8.0, depth = 8
iter = 5222, queue = 8697, heur = -8.0, depth = 8
iter = 5223, queue = 8700, heur = -8.0, depth = 8
iter = 5224, queue = 8700, heur = -8.0, depth = 8
iter = 5225, queue = 8699, heur = -8.0, depth = 8
iter = 5226, queue = 8700, heur = -8.0, depth = 8
iter = 5227, queue = 8703, heur = -8.0, depth = 8
iter = 5228, queue = 8704, heur = -8.0, depth = 8
iter = 5229, queue = 8705, heur = -8.0, depth = 8
iter = 5230, queue = 8706, heur = -8.0, depth = 9
iter = 5231, queue = 8707, heur = -8.0, depth = 8
iter = 5232, queue = 8708, heur = -8.0, depth = 8
iter = 5233, queue = 8709, heur = -8.0, depth = 8
iter = 5234, queue = 8708, heur = -8.0, depth = 8
iter = 5235, queue = 8708, heur = -8.0, depth = 8
iter = 5236, queue = 8710, heur = -8.0, depth = 8
iter = 5237, queue = 8710, heur = -8.0, depth = 8
iter = 5238, queue = 8713, heur = -8.0, depth = 8
iter = 5239, queue = 8716, heur = -8.0, depth = 8
iter = 5240, queue = 8719, heur = -8.0, depth = 8
iter = 5241, queue = 8721, heur = -8.0, depth = 8
iter = 5242, queue = 8722, heur = -8.0, depth = 8
iter = 5243, queue = 8725, heur = -8.0, depth = 8
iter = 5244, queue = 8724, heur = -8.0, depth = 8
iter = 5245, queue = 8726, heur = -8.0, depth = 8
iter = 5246, queue = 8727, heur = -8.0, depth = 8
iter = 5247, queue = 8730, heur = -8.0, depth = 8
iter = 5248, queue = 8732, heur = -8.0, depth = 8
iter = 5249, queue = 8733, heur = -8.0, depth = 8
```

```
iter = 5250, queue = 8734, heur = -8.0, depth = 8
iter = 5251, queue = 8735, heur = -8.0, depth = 8
iter = 5252, queue = 8736, heur = -8.0, depth = 8
iter = 5253, queue = 8737, heur = -8.0, depth = 8
iter = 5254, queue = 8738, heur = -8.0, depth = 9
iter = 5255, queue = 8741, heur = -8.0, depth = 8
iter = 5256, queue = 8744, heur = -8.0, depth = 8
iter = 5257, queue = 8745, heur = -8.0, depth = 8
iter = 5258, queue = 8746, heur = -8.0, depth = 8
iter = 5259, queue = 8746, heur = -8.0, depth = 8
iter = 5260, queue = 8748, heur = -8.0, depth = 8
iter = 5261, queue = 8750, heur = -8.0, depth = 8
iter = 5262, queue = 8751, heur = -8.0, depth = 8
iter = 5263, queue = 8754, heur = -8.0, depth = 8
iter = 5264, queue = 8755, heur = -8.0, depth = 9
iter = 5265, queue = 8755, heur = -8.0, depth = 8
iter = 5266, queue = 8756, heur = -8.0, depth = 8
iter = 5267, queue = 8759, heur = -8.0, depth = 8
iter = 5268, queue = 8762, heur = -8.0, depth = 8
iter = 5269, queue = 8762, heur = -8.0, depth = 8
iter = 5270, queue = 8763, heur = -8.0, depth = 8
iter = 5271, queue = 8764, heur = -8.0, depth = 8
iter = 5272, queue = 8766, heur = -8.0, depth = 8
iter = 5273, queue = 8769, heur = -8.0, depth = 8
iter = 5274, queue = 8770, heur = -8.0, depth = 8
iter = 5275, queue = 8771, heur = -8.0, depth = 9
iter = 5276, queue = 8772, heur = -8.0, depth = 9
iter = 5277, queue = 8772, heur = -8.0, depth = 8
iter = 5278, queue = 8773, heur = -8.0, depth = 8
iter = 5279, queue = 8776, heur = -8.0, depth = 8
iter = 5280, queue = 8778, heur = -8.0, depth = 8
iter = 5281, queue = 8779, heur = -8.0, depth = 9
iter = 5282, queue = 8782, heur = -8.0, depth = 8
iter = 5283, queue = 8785, heur = -8.0, depth = 9
iter = 5284, queue = 8785, heur = -8.0, depth = 9
iter = 5285, queue = 8786, heur = -8.0, depth = 8
iter = 5286, queue = 8788, heur = -8.0, depth = 8
iter = 5287, queue = 8789, heur = -8.0, depth = 8
iter = 5288, queue = 8790, heur = -8.0, depth = 8
iter = 5289, queue = 8793, heur = -8.0, depth = 8
iter = 5290, queue = 8796, heur = -8.0, depth = 8
iter = 5291, queue = 8799, heur = -8.0, depth = 9
iter = 5292, queue = 8800, heur = -8.0, depth = 8
iter = 5293, queue = 8803, heur = -8.0, depth = 8
iter = 5294, queue = 8803, heur = -8.0, depth = 8
iter = 5295, queue = 8803, heur = -8.0, depth = 8
iter = 5296, queue = 8805, heur = -8.0, depth = 8
iter = 5297, queue = 8808, heur = -8.0, depth = 8
iter = 5298, queue = 8808, heur = -8.0, depth = 8
iter = 5299, queue = 8809, heur = -8.0, depth = 9
iter = 5300, queue = 8812, heur = -8.0, depth = 8
iter = 5301, queue = 8814, heur = -8.0, depth = 8
iter = 5302, queue = 8817, heur = -8.0, depth = 8
iter = 5303, queue = 8819, heur = -8.0, depth = 8
iter = 5304, queue = 8820, heur = -8.0, depth = 8
iter = 5305, queue = 8822, heur = -8.0, depth = 8
iter = 5306, queue = 8822, heur = -8.0, depth = 8
iter = 5307, queue = 8825, heur = -8.0, depth = 9
iter = 5308, queue = 8828, heur = -8.0, depth = 9
```

```
iter = 5309, queue = 8830, heur = -8.0, depth = 8
iter = 5310, queue = 8831, heur = -8.0, depth = 8
iter = 5311, queue = 8832, heur = -8.0, depth = 8
iter = 5312, queue = 8832, heur = -8.0, depth = 9
iter = 5313, queue = 8835, heur = -8.0, depth = 8
iter = 5314, queue = 8838, heur = -8.0, depth = 8
iter = 5315, queue = 8837, heur = -8.0, depth = 8
iter = 5316, queue = 8838, heur = -8.0, depth = 8
iter = 5317, queue = 8839, heur = -8.0, depth = 8
iter = 5318, queue = 8842, heur = -8.0, depth = 8
iter = 5319, queue = 8843, heur = -8.0, depth = 8
iter = 5320, queue = 8843, heur = -8.0, depth = 9
iter = 5321, queue = 8842, heur = -8.0, depth = 9
iter = 5322, queue = 8844, heur = -8.0, depth = 8
iter = 5323, queue = 8844, heur = -8.0, depth = 8
iter = 5324, queue = 8843, heur = -8.0, depth = 8
iter = 5325, queue = 8845, heur = -8.0, depth = 9
iter = 5326, queue = 8846, heur = -8.0, depth = 9
iter = 5327, queue = 8849, heur = -8.0, depth = 8
iter = 5328, queue = 8850, heur = -8.0, depth = 8
iter = 5329, queue = 8852, heur = -8.0, depth = 8
iter = 5330, queue = 8855, heur = -8.0, depth = 8
iter = 5331, queue = 8856, heur = -8.0, depth = 8
iter = 5332, queue = 8855, heur = -8.0, depth = 8
iter = 5333, queue = 8856, heur = -8.0, depth = 8
iter = 5334, queue = 8858, heur = -8.0, depth = 8
iter = 5335, queue = 8858, heur = -8.0, depth = 8
iter = 5336, queue = 8860, heur = -8.0, depth = 8
iter = 5337, queue = 8861, heur = -8.0, depth = 9
iter = 5338, queue = 8862, heur = -8.0, depth = 8
iter = 5339, queue = 8865, heur = -8.0, depth = 8
iter = 5340, queue = 8868, heur = -8.0, depth = 8
iter = 5341, queue = 8867, heur = -8.0, depth = 9
iter = 5342, queue = 8869, heur = -8.0, depth = 8
iter = 5343, queue = 8872, heur = -8.0, depth = 8
iter = 5344, queue = 8875, heur = -8.0, depth = 8
iter = 5345, queue = 8878, heur = -8.0, depth = 8
iter = 5346, queue = 8880, heur = -8.0, depth = 8
iter = 5347, queue = 8883, heur = -8.0, depth = 8
iter = 5348, queue = 8886, heur = -8.0, depth = 8
iter = 5349, queue = 8887, heur = -8.0, depth = 8
iter = 5350, queue = 8890, heur = -8.0, depth = 8
iter = 5351, queue = 8893, heur = -8.0, depth = 8
iter = 5352, queue = 8894, heur = -8.0, depth = 8
iter = 5353, queue = 8897, heur = -8.0, depth = 8
iter = 5354, queue = 8899, heur = -8.0, depth = 9
iter = 5355, queue = 8900, heur = -8.0, depth = 8
iter = 5356, queue = 8902, heur = -8.0, depth = 8
iter = 5357, queue = 8903, heur = -8.0, depth = 8
iter = 5358, queue = 8903, heur = -8.0, depth = 8
iter = 5359, queue = 8903, heur = -8.0, depth = 8
iter = 5360, queue = 8904, heur = -8.0, depth = 8
iter = 5361, queue = 8907, heur = -8.0, depth = 8
iter = 5362, queue = 8908, heur = -8.0, depth = 8
iter = 5363, queue = 8909, heur = -8.0, depth = 8
iter = 5364, queue = 8908, heur = -8.0, depth = 8
iter = 5365, queue = 8909, heur = -8.0, depth = 8
iter = 5366, queue = 8908, heur = -8.0, depth = 8
iter = 5367, queue = 8911, heur = -8.0, depth = 8
```

```
iter = 5368, queue = 8912, heur = -8.0, depth = 8
iter = 5369, queue = 8913, heur = -8.0, depth = 8
iter = 5370, queue = 8914, heur = -8.0, depth = 8
iter = 5371, queue = 8915, heur = -8.0, depth = 8
iter = 5372, queue = 8918, heur = -8.0, depth = 8
iter = 5373, queue = 8919, heur = -8.0, depth = 8
iter = 5374, queue = 8920, heur = -8.0, depth = 8
iter = 5375, queue = 8921, heur = -8.0, depth = 8
iter = 5376, queue = 8922, heur = -8.0, depth = 8
iter = 5377, queue = 8923, heur = -8.0, depth = 8
iter = 5378, queue = 8925, heur = -8.0, depth = 8
iter = 5379, queue = 8926, heur = -8.0, depth = 8
iter = 5380, queue = 8929, heur = -8.0, depth = 8
iter = 5381, queue = 8930, heur = -8.0, depth = 8
iter = 5382, queue = 8929, heur = -8.0, depth = 8
iter = 5383, queue = 8932, heur = -8.0, depth = 8
iter = 5384, queue = 8933, heur = -8.0, depth = 8
iter = 5385, queue = 8934, heur = -8.0, depth = 8
iter = 5386, queue = 8935, heur = -8.0, depth = 9
iter = 5387, queue = 8936, heur = -8.0, depth = 8
iter = 5388, queue = 8937, heur = -8.0, depth = 8
iter = 5389, queue = 8940, heur = -8.0, depth = 8
iter = 5390, queue = 8940, heur = -8.0, depth = 8
iter = 5391, queue = 8941, heur = -8.0, depth = 8
iter = 5392, queue = 8940, heur = -8.0, depth = 8
iter = 5393, queue = 8942, heur = -8.0, depth = 8
iter = 5394, queue = 8943, heur = -8.0, depth = 9
iter = 5395, queue = 8944, heur = -8.0, depth = 8
iter = 5396, queue = 8943, heur = -8.0, depth = 8
iter = 5397, queue = 8944, heur = -8.0, depth = 8
iter = 5398, queue = 8947, heur = -8.0, depth = 8
iter = 5399, queue = 8948, heur = -8.0, depth = 8
iter = 5400, queue = 8951, heur = -8.0, depth = 8
iter = 5401, queue = 8952, heur = -8.0, depth = 8
iter = 5402, queue = 8953, heur = -8.0, depth = 8
iter = 5403, queue = 8954, heur = -8.0, depth = 8
iter = 5404, queue = 8957, heur = -8.0, depth = 8
iter = 5405, queue = 8957, heur = -8.0, depth = 8
iter = 5406, queue = 8958, heur = -8.0, depth = 8
iter = 5407, queue = 8957, heur = -8.0, depth = 8
iter = 5408, queue = 8958, heur = -8.0, depth = 9
iter = 5409, queue = 8958, heur = -8.0, depth = 9
iter = 5410, queue = 8959, heur = -8.0, depth = 8
iter = 5411, queue = 8958, heur = -8.0, depth = 8
iter = 5412, queue = 8959, heur = -8.0, depth = 8
iter = 5413, queue = 8960, heur = -8.0, depth = 8
iter = 5414, queue = 8962, heur = -8.0, depth = 8
iter = 5415, queue = 8962, heur = -8.0, depth = 8
iter = 5416, queue = 8962, heur = -8.0, depth = 8
iter = 5417, queue = 8963, heur = -8.0, depth = 9
iter = 5418, queue = 8964, heur = -8.0, depth = 8
iter = 5419, queue = 8965, heur = -8.0, depth = 8
iter = 5420, queue = 8968, heur = -8.0, depth = 8
iter = 5421, queue = 8969, heur = -8.0, depth = 8
iter = 5422, queue = 8970, heur = -8.0, depth = 8
iter = 5423, queue = 8972, heur = -8.0, depth = 8
iter = 5424, queue = 8975, heur = -8.0, depth = 8
iter = 5425, queue = 8978, heur = -8.0, depth = 8
iter = 5426, queue = 8979, heur = -8.0, depth = 8
```

```
iter = 5427, queue = 8980, heur = -8.0, depth = 9
iter = 5428, queue = 8983, heur = -8.0, depth = 11
iter = 5429, queue = 8984, heur = -8.0, depth = 8
iter = 5430, queue = 8987, heur = -8.0, depth = 8
iter = 5431, queue = 8987, heur = -8.0, depth = 8
iter = 5432, queue = 8988, heur = -8.0, depth = 8
iter = 5433, queue = 8988, heur = -8.0, depth = 8
iter = 5434, queue = 8989, heur = -8.0, depth = 9
iter = 5435, queue = 8990, heur = -8.0, depth = 9
iter = 5436, queue = 8993, heur = -8.0, depth = 8
iter = 5437, queue = 8993, heur = -8.0, depth = 8
iter = 5438, queue = 8994, heur = -8.0, depth = 9
iter = 5439, queue = 8994, heur = -8.0, depth = 9
iter = 5440, queue = 8997, heur = -8.0, depth = 8
iter = 5441, queue = 8998, heur = -8.0, depth = 8
iter = 5442, queue = 9000, heur = -8.0, depth = 8
iter = 5443, queue = 9001, heur = -8.0, depth = 12
iter = 5444, queue = 9004, heur = -8.0, depth = 8
iter = 5445, queue = 9005, heur = -8.0, depth = 8
iter = 5446, queue = 9007, heur = -8.0, depth = 8
iter = 5447, queue = 9010, heur = -8.0, depth = 8
iter = 5448, queue = 9012, heur = -8.0, depth = 8
iter = 5449, queue = 9012, heur = -8.0, depth = 8
iter = 5450, queue = 9013, heur = -8.0, depth = 8
iter = 5451, queue = 9013, heur = -8.0, depth = 9
iter = 5452, queue = 9015, heur = -8.0, depth = 8
iter = 5453, queue = 9018, heur = -8.0, depth = 12
iter = 5454, queue = 9020, heur = -8.0, depth = 8
iter = 5455, queue = 9021, heur = -8.0, depth = 8
iter = 5456, queue = 9021, heur = -8.0, depth = 8
iter = 5457, queue = 9021, heur = -8.0, depth = 8
iter = 5458, queue = 9021, heur = -8.0, depth = 8
iter = 5459, queue = 9022, heur = -8.0, depth = 8
iter = 5460, queue = 9022, heur = -8.0, depth = 9
iter = 5461, queue = 9024, heur = -8.0, depth = 8
iter = 5462, queue = 9027, heur = -8.0, depth = 8
iter = 5463, queue = 9030, heur = -8.0, depth = 9
iter = 5464, queue = 9031, heur = -8.0, depth = 8
iter = 5465, queue = 9034, heur = -8.0, depth = 8
iter = 5466, queue = 9037, heur = -8.0, depth = 8
iter = 5467, queue = 9040, heur = -8.0, depth = 8
iter = 5468, queue = 9039, heur = -8.0, depth = 8
iter = 5469, queue = 9039, heur = -8.0, depth = 8
iter = 5470, queue = 9040, heur = -8.0, depth = 8
iter = 5471, queue = 9043, heur = -8.0, depth = 8
iter = 5472, queue = 9045, heur = -8.0, depth = 9
iter = 5473, queue = 9048, heur = -8.0, depth = 8
iter = 5474, queue = 9051, heur = -8.0, depth = 9
iter = 5475, queue = 9052, heur = -8.0, depth = 8
iter = 5476, queue = 9054, heur = -8.0, depth = 8
iter = 5477, queue = 9057, heur = -8.0, depth = 8
iter = 5478, queue = 9058, heur = -8.0, depth = 8
iter = 5479, queue = 9059, heur = -8.0, depth = 9
iter = 5480, queue = 9060, heur = -8.0, depth = 11
iter = 5481, queue = 9061, heur = -8.0, depth = 11
iter = 5482, queue = 9063, heur = -8.0, depth = 9
iter = 5483, queue = 9065, heur = -8.0, depth = 11
iter = 5484, queue = 9068, heur = -8.0, depth = 8
iter = 5485, queue = 9069, heur = -8.0, depth = 8
```

```
iter = 5486, queue = 9068, heur = -8.0, depth = 9
iter = 5487, queue = 9070, heur = -8.0, depth = 8
iter = 5488, queue = 9073, heur = -8.0, depth = 8
iter = 5489, queue = 9074, heur = -8.0, depth = 9
iter = 5490, queue = 9077, heur = -8.0, depth = 8
iter = 5491, queue = 9080, heur = -8.0, depth = 8
iter = 5492, queue = 9083, heur = -8.0, depth = 8
iter = 5493, queue = 9084, heur = -8.0, depth = 8
iter = 5494, queue = 9085, heur = -8.0, depth = 8
iter = 5495, queue = 9087, heur = -8.0, depth = 8
iter = 5496, queue = 9090, heur = -8.0, depth = 9
iter = 5497, queue = 9093, heur = -8.0, depth = 9
iter = 5498, queue = 9094, heur = -8.0, depth = 8
iter = 5499, queue = 9095, heur = -8.0, depth = 8
iter = 5500, queue = 9096, heur = -8.0, depth = 8
iter = 5501, queue = 9097, heur = -8.0, depth = 8
iter = 5502, queue = 9100, heur = -8.0, depth = 8
iter = 5503, queue = 9102, heur = -8.0, depth = 9
iter = 5504, queue = 9103, heur = -8.0, depth = 8
iter = 5505, queue = 9106, heur = -8.0, depth = 8
iter = 5506, queue = 9109, heur = -8.0, depth = 8
iter = 5507, queue = 9110, heur = -8.0, depth = 8
iter = 5508, queue = 9111, heur = -8.0, depth = 8
iter = 5509, queue = 9112, heur = -8.0, depth = 9
iter = 5510, queue = 9113, heur = -8.0, depth = 8
iter = 5511, queue = 9114, heur = -8.0, depth = 8
iter = 5512, queue = 9113, heur = -8.0, depth = 8
iter = 5513, queue = 9115, heur = -8.0, depth = 8
iter = 5514, queue = 9116, heur = -8.0, depth = 8
iter = 5515, queue = 9117, heur = -8.0, depth = 8
iter = 5516, queue = 9118, heur = -8.0, depth = 8
iter = 5517, queue = 9119, heur = -8.0, depth = 9
iter = 5518, queue = 9121, heur = -8.0, depth = 8
iter = 5519, queue = 9123, heur = -8.0, depth = 8
iter = 5520, queue = 9124, heur = -8.0, depth = 8
iter = 5521, queue = 9127, heur = -8.0, depth = 8
iter = 5522, queue = 9129, heur = -8.0, depth = 8
iter = 5523, queue = 9130, heur = -8.0, depth = 8
iter = 5524, queue = 9131, heur = -8.0, depth = 8
iter = 5525, queue = 9132, heur = -8.0, depth = 8
iter = 5526, queue = 9134, heur = -8.0, depth = 9
iter = 5527, queue = 9134, heur = -8.0, depth = 8
iter = 5528, queue = 9135, heur = -8.0, depth = 8
iter = 5529, queue = 9136, heur = -8.0, depth = 8
iter = 5530, queue = 9138, heur = -8.0, depth = 8
iter = 5531, queue = 9141, heur = -8.0, depth = 8
iter = 5532, queue = 9142, heur = -8.0, depth = 8
iter = 5533, queue = 9145, heur = -8.0, depth = 8
iter = 5534, queue = 9147, heur = -8.0, depth = 8
iter = 5535, queue = 9150, heur = -8.0, depth = 8
iter = 5536, queue = 9151, heur = -8.0, depth = 8
iter = 5537, queue = 9152, heur = -8.0, depth = 8
iter = 5538, queue = 9155, heur = -8.0, depth = 8
iter = 5539, queue = 9158, heur = -8.0, depth = 8
iter = 5540, queue = 9157, heur = -8.0, depth = 8
iter = 5541, queue = 9158, heur = -8.0, depth = 8
iter = 5542, queue = 9159, heur = -8.0, depth = 8
iter = 5543, queue = 9160, heur = -8.0, depth = 8
iter = 5544, queue = 9161, heur = -8.0, depth = 8
```

```
iter = 5545, queue = 9162, heur = -8.0, depth = 8
iter = 5546, queue = 9165, heur = -8.0, depth = 8
iter = 5547, queue = 9167, heur = -8.0, depth = 8
iter = 5548, queue = 9169, heur = -8.0, depth = 11
iter = 5549, queue = 9170, heur = -8.0, depth = 8
iter = 5550, queue = 9173, heur = -8.0, depth = 8
iter = 5551, queue = 9174, heur = -8.0, depth = 8
iter = 5552, queue = 9175, heur = -8.0, depth = 9
iter = 5553, queue = 9178, heur = -8.0, depth = 8
iter = 5554, queue = 9179, heur = -8.0, depth = 8
iter = 5555, queue = 9179, heur = -8.0, depth = 8
iter = 5556, queue = 9182, heur = -8.0, depth = 8
iter = 5557, queue = 9185, heur = -8.0, depth = 8
iter = 5558, queue = 9188, heur = -8.0, depth = 8
iter = 5559, queue = 9191, heur = -8.0, depth = 9
iter = 5560, queue = 9192, heur = -8.0, depth = 8
iter = 5561, queue = 9193, heur = -8.0, depth = 8
iter = 5562, queue = 9194, heur = -8.0, depth = 9
iter = 5563, queue = 9195, heur = -8.0, depth = 8
iter = 5564, queue = 9196, heur = -8.0, depth = 9
iter = 5565, queue = 9197, heur = -8.0, depth = 8
iter = 5566, queue = 9196, heur = -8.0, depth = 9
iter = 5567, queue = 9198, heur = -8.0, depth = 9
iter = 5568, queue = 9200, heur = -8.0, depth = 8
iter = 5569, queue = 9201, heur = -8.0, depth = 8
iter = 5570, queue = 9202, heur = -8.0, depth = 8
iter = 5571, queue = 9205, heur = -8.0, depth = 8
iter = 5572, queue = 9208, heur = -8.0, depth = 8
iter = 5573, queue = 9211, heur = -8.0, depth = 8
iter = 5574, queue = 9212, heur = -8.0, depth = 8
iter = 5575, queue = 9213, heur = -8.0, depth = 8
iter = 5576, queue = 9214, heur = -8.0, depth = 8
iter = 5577, queue = 9215, heur = -8.0, depth = 8
iter = 5578, queue = 9216, heur = -8.0, depth = 8
iter = 5579, queue = 9217, heur = -8.0, depth = 8
iter = 5580, queue = 9220, heur = -8.0, depth = 8
iter = 5581, queue = 9223, heur = -8.0, depth = 8
iter = 5582, queue = 9223, heur = -8.0, depth = 8
iter = 5583, queue = 9224, heur = -8.0, depth = 8
iter = 5584, queue = 9225, heur = -8.0, depth = 8
iter = 5585, queue = 9226, heur = -8.0, depth = 8
iter = 5586, queue = 9226, heur = -8.0, depth = 8
iter = 5587, queue = 9225, heur = -8.0, depth = 8
iter = 5588, queue = 9225, heur = -8.0, depth = 8
iter = 5589, queue = 9226, heur = -8.0, depth = 8
iter = 5590, queue = 9226, heur = -8.0, depth = 8
iter = 5591, queue = 9229, heur = -8.0, depth = 8
iter = 5592, queue = 9230, heur = -8.0, depth = 8
iter = 5593, queue = 9231, heur = -8.0, depth = 8
iter = 5594, queue = 9232, heur = -8.0, depth = 8
iter = 5595, queue = 9234, heur = -8.0, depth = 8
iter = 5596, queue = 9233, heur = -8.0, depth = 8
iter = 5597, queue = 9234, heur = -8.0, depth = 9
iter = 5598, queue = 9237, heur = -8.0, depth = 9
iter = 5599, queue = 9238, heur = -8.0, depth = 8
iter = 5600, queue = 9240, heur = -8.0, depth = 8
iter = 5601, queue = 9243, heur = -8.0, depth = 8
iter = 5602, queue = 9244, heur = -8.0, depth = 8
iter = 5603, queue = 9247, heur = -8.0, depth = 9
```

```
iter = 5604, queue = 9249, heur = -8.0, depth = 8
iter = 5605, queue = 9249, heur = -8.0, depth = 8
iter = 5606, queue = 9250, heur = -8.0, depth = 10
iter = 5607, queue = 9251, heur = -8.0, depth = 8
iter = 5608, queue = 9252, heur = -8.0, depth = 10
iter = 5609, queue = 9254, heur = -8.0, depth = 9
iter = 5610, queue = 9255, heur = -8.0, depth = 8
iter = 5611, queue = 9256, heur = -8.0, depth = 8
iter = 5612, queue = 9259, heur = -8.0, depth = 8
iter = 5613, queue = 9262, heur = -8.0, depth = 8
iter = 5614, queue = 9265, heur = -8.0, depth = 8
iter = 5615, queue = 9267, heur = -8.0, depth = 8
iter = 5616, queue = 9268, heur = -8.0, depth = 8
iter = 5617, queue = 9267, heur = -8.0, depth = 9
iter = 5618, queue = 9268, heur = -8.0, depth = 8
iter = 5619, queue = 9271, heur = -8.0, depth = 8
iter = 5620, queue = 9271, heur = -8.0, depth = 10
iter = 5621, queue = 9272, heur = -8.0, depth = 8
iter = 5622, queue = 9273, heur = -8.0, depth = 8
iter = 5623, queue = 9273, heur = -8.0, depth = 9
iter = 5624, queue = 9274, heur = -8.0, depth = 9
iter = 5625, queue = 9276, heur = -8.0, depth = 8
iter = 5626, queue = 9279, heur = -8.0, depth = 8
iter = 5627, queue = 9280, heur = -8.0, depth = 8
iter = 5628, queue = 9283, heur = -8.0, depth = 10
iter = 5629, queue = 9284, heur = -8.0, depth = 8
iter = 5630, queue = 9284, heur = -8.0, depth = 8
iter = 5631, queue = 9287, heur = -8.0, depth = 8
iter = 5632, queue = 9288, heur = -8.0, depth = 8
iter = 5633, queue = 9289, heur = -8.0, depth = 8
iter = 5634, queue = 9291, heur = -8.0, depth = 8
iter = 5635, queue = 9292, heur = -8.0, depth = 8
iter = 5636, queue = 9295, heur = -8.0, depth = 8
iter = 5637, queue = 9294, heur = -8.0, depth = 8
iter = 5638, queue = 9294, heur = -8.0, depth = 8
iter = 5639, queue = 9293, heur = -8.0, depth = 8
iter = 5640, queue = 9296, heur = -8.0, depth = 8
iter = 5641, queue = 9299, heur = -8.0, depth = 8
iter = 5642, queue = 9302, heur = -8.0, depth = 8
iter = 5643, queue = 9303, heur = -8.0, depth = 8
iter = 5644, queue = 9303, heur = -8.0, depth = 8
iter = 5645, queue = 9304, heur = -8.0, depth = 8
iter = 5646, queue = 9306, heur = -8.0, depth = 8
iter = 5647, queue = 9307, heur = -8.0, depth = 8
iter = 5648, queue = 9308, heur = -8.0, depth = 8
iter = 5649, queue = 9310, heur = -8.0, depth = 8
iter = 5650, queue = 9313, heur = -8.0, depth = 8
iter = 5651, queue = 9316, heur = -8.0, depth = 8
iter = 5652, queue = 9319, heur = -8.0, depth = 8
iter = 5653, queue = 9322, heur = -8.0, depth = 8
iter = 5654, queue = 9323, heur = -8.0, depth = 8
iter = 5655, queue = 9324, heur = -8.0, depth = 8
iter = 5656, queue = 9326, heur = -8.0, depth = 8
iter = 5657, queue = 9327, heur = -8.0, depth = 8
iter = 5658, queue = 9328, heur = -8.0, depth = 8
iter = 5659, queue = 9329, heur = -8.0, depth = 9
iter = 5660, queue = 9329, heur = -8.0, depth = 8
iter = 5661, queue = 9330, heur = -8.0, depth = 8
iter = 5662, queue = 9333, heur = -8.0, depth = 8
```

```
iter = 5663, queue = 9334, heur = -8.0, depth = 8
iter = 5664, queue = 9335, heur = -8.0, depth = 8
iter = 5665, queue = 9336, heur = -8.0, depth = 8
iter = 5666, queue = 9339, heur = -8.0, depth = 8
iter = 5667, queue = 9340, heur = -8.0, depth = 8
iter = 5668, queue = 9339, heur = -8.0, depth = 8
iter = 5669, queue = 9340, heur = -8.0, depth = 8
iter = 5670, queue = 9342, heur = -8.0, depth = 8
iter = 5671, queue = 9344, heur = -8.0, depth = 8
iter = 5672, queue = 9344, heur = -8.0, depth = 8
iter = 5673, queue = 9345, heur = -8.0, depth = 8
iter = 5674, queue = 9348, heur = -8.0, depth = 8
iter = 5675, queue = 9347, heur = -8.0, depth = 8
iter = 5676, queue = 9348, heur = -8.0, depth = 8
iter = 5677, queue = 9351, heur = -8.0, depth = 8
iter = 5678, queue = 9354, heur = -8.0, depth = 8
iter = 5679, queue = 9357, heur = -8.0, depth = 8
iter = 5680, queue = 9360, heur = -8.0, depth = 8
iter = 5681, queue = 9361, heur = -8.0, depth = 8
iter = 5682, queue = 9364, heur = -8.0, depth = 8
iter = 5683, queue = 9365, heur = -8.0, depth = 8
iter = 5684, queue = 9365, heur = -8.0, depth = 8
iter = 5685, queue = 9367, heur = -8.0, depth = 8
iter = 5686, queue = 9367, heur = -8.0, depth = 8
iter = 5687, queue = 9370, heur = -8.0, depth = 8
iter = 5688, queue = 9371, heur = -8.0, depth = 8
iter = 5689, queue = 9374, heur = -8.0, depth = 8
iter = 5690, queue = 9375, heur = -8.0, depth = 8
iter = 5691, queue = 9378, heur = -8.0, depth = 8
iter = 5692, queue = 9380, heur = -8.0, depth = 8
iter = 5693, queue = 9380, heur = -8.0, depth = 8
iter = 5694, queue = 9381, heur = -8.0, depth = 8
iter = 5695, queue = 9382, heur = -8.0, depth = 8
iter = 5696, queue = 9383, heur = -8.0, depth = 8
iter = 5697, queue = 9383, heur = -8.0, depth = 8
iter = 5698, queue = 9384, heur = -8.0, depth = 8
iter = 5699, queue = 9387, heur = -8.0, depth = 8
iter = 5700, queue = 9390, heur = -8.0, depth = 8
iter = 5701, queue = 9392, heur = -8.0, depth = 8
iter = 5702, queue = 9395, heur = -8.0, depth = 8
iter = 5703, queue = 9396, heur = -8.0, depth = 10
iter = 5704, queue = 9397, heur = -8.0, depth = 8
iter = 5705, queue = 9398, heur = -8.0, depth = 8
iter = 5706, queue = 9401, heur = -8.0, depth = 9
iter = 5707, queue = 9403, heur = -8.0, depth = 10
iter = 5708, queue = 9404, heur = -8.0, depth = 8
iter = 5709, queue = 9407, heur = -8.0, depth = 8
iter = 5710, queue = 9410, heur = -8.0, depth = 10
iter = 5711, queue = 9412, heur = -8.0, depth = 8
iter = 5712, queue = 9415, heur = -8.0, depth = 8
iter = 5713, queue = 9418, heur = -8.0, depth = 8
iter = 5714, queue = 9419, heur = -8.0, depth = 8
iter = 5715, queue = 9422, heur = -8.0, depth = 9
iter = 5716, queue = 9423, heur = -8.0, depth = 8
iter = 5717, queue = 9423, heur = -8.0, depth = 8
iter = 5718, queue = 9424, heur = -8.0, depth = 8
iter = 5719, queue = 9425, heur = -8.0, depth = 8
iter = 5720, queue = 9424, heur = -8.0, depth = 8
iter = 5721, queue = 9425, heur = -8.0, depth = 8
```

```
iter = 5722, queue = 9426, heur = -8.0, depth = 9
iter = 5723, queue = 9427, heur = -8.0, depth = 8
iter = 5724, queue = 9426, heur = -8.0, depth = 8
iter = 5725, queue = 9429, heur = -8.0, depth = 8
iter = 5726, queue = 9430, heur = -8.0, depth = 8
iter = 5727, queue = 9430, heur = -8.0, depth = 8
iter = 5728, queue = 9431, heur = -8.0, depth = 8
iter = 5729, queue = 9431, heur = -8.0, depth = 8
iter = 5730, queue = 9434, heur = -8.0, depth = 8
iter = 5731, queue = 9434, heur = -8.0, depth = 8
iter = 5732, queue = 9435, heur = -8.0, depth = 8
iter = 5733, queue = 9438, heur = -8.0, depth = 8
iter = 5734, queue = 9441, heur = -8.0, depth = 8
iter = 5735, queue = 9443, heur = -8.0, depth = 8
iter = 5736, queue = 9446, heur = -8.0, depth = 8
iter = 5737, queue = 9449, heur = -8.0, depth = 9
iter = 5738, queue = 9451, heur = -8.0, depth = 8
iter = 5739, queue = 9454, heur = -8.0, depth = 8
iter = 5740, queue = 9455, heur = -8.0, depth = 8
iter = 5741, queue = 9457, heur = -8.0, depth = 8
iter = 5742, queue = 9458, heur = -8.0, depth = 8
iter = 5743, queue = 9461, heur = -8.0, depth = 8
iter = 5744, queue = 9462, heur = -8.0, depth = 8
iter = 5745, queue = 9463, heur = -8.0, depth = 8
iter = 5746, queue = 9464, heur = -8.0, depth = 8
iter = 5747, queue = 9463, heur = -8.0, depth = 8
iter = 5748, queue = 9465, heur = -8.0, depth = 9
iter = 5749, queue = 9468, heur = -8.0, depth = 8
iter = 5750, queue = 9471, heur = -8.0, depth = 8
iter = 5751, queue = 9472, heur = -8.0, depth = 8
iter = 5752, queue = 9472, heur = -8.0, depth = 8
iter = 5753, queue = 9475, heur = -8.0, depth = 8
iter = 5754, queue = 9476, heur = -8.0, depth = 8
iter = 5755, queue = 9475, heur = -8.0, depth = 8
iter = 5756, queue = 9476, heur = -8.0, depth = 9
iter = 5757, queue = 9477, heur = -8.0, depth = 8
iter = 5758, queue = 9479, heur = -8.0, depth = 9
iter = 5759, queue = 9482, heur = -8.0, depth = 9
iter = 5760, queue = 9485, heur = -8.0, depth = 8
iter = 5761, queue = 9488, heur = -8.0, depth = 8
iter = 5762, queue = 9489, heur = -8.0, depth = 8
iter = 5763, queue = 9490, heur = -8.0, depth = 9
iter = 5764, queue = 9493, heur = -8.0, depth = 8
iter = 5765, queue = 9494, heur = -8.0, depth = 8
iter = 5766, queue = 9494, heur = -8.0, depth = 8
iter = 5767, queue = 9497, heur = -8.0, depth = 8
iter = 5768, queue = 9498, heur = -8.0, depth = 8
iter = 5769, queue = 9500, heur = -8.0, depth = 8
iter = 5770, queue = 9499, heur = -8.0, depth = 8
iter = 5771, queue = 9502, heur = -8.0, depth = 8
iter = 5772, queue = 9503, heur = -8.0, depth = 8
iter = 5773, queue = 9502, heur = -8.0, depth = 8
iter = 5774, queue = 9504, heur = -8.0, depth = 9
iter = 5775, queue = 9507, heur = -8.0, depth = 8
iter = 5776, queue = 9507, heur = -8.0, depth = 8
iter = 5777, queue = 9508, heur = -8.0, depth = 8
iter = 5778, queue = 9507, heur = -8.0, depth = 8
iter = 5779, queue = 9508, heur = -8.0, depth = 8
iter = 5780, queue = 9509, heur = -8.0, depth = 8
```

```
iter = 5781, queue = 9510, heur = -8.0, depth = 8
iter = 5782, queue = 9509, heur = -8.0, depth = 8
iter = 5783, queue = 9511, heur = -8.0, depth = 8
iter = 5784, queue = 9512, heur = -8.0, depth = 8
iter = 5785, queue = 9515, heur = -8.0, depth = 8
iter = 5786, queue = 9516, heur = -8.0, depth = 8
iter = 5787, queue = 9519, heur = -8.0, depth = 8
iter = 5788, queue = 9521, heur = -8.0, depth = 9
iter = 5789, queue = 9524, heur = -8.0, depth = 8
iter = 5790, queue = 9524, heur = -8.0, depth = 9
iter = 5791, queue = 9527, heur = -8.0, depth = 9
iter = 5792, queue = 9530, heur = -8.0, depth = 8
iter = 5793, queue = 9532, heur = -8.0, depth = 8
iter = 5794, queue = 9531, heur = -8.0, depth = 8
iter = 5795, queue = 9534, heur = -8.0, depth = 8
iter = 5796, queue = 9535, heur = -8.0, depth = 8
iter = 5797, queue = 9538, heur = -8.0, depth = 8
iter = 5798, queue = 9541, heur = -8.0, depth = 8
iter = 5799, queue = 9544, heur = -8.0, depth = 8
iter = 5800, queue = 9547, heur = -8.0, depth = 8
iter = 5801, queue = 9550, heur = -8.0, depth = 8
iter = 5802, queue = 9552, heur = -8.0, depth = 8
iter = 5803, queue = 9555, heur = -8.0, depth = 8
iter = 5804, queue = 9558, heur = -8.0, depth = 8
iter = 5805, queue = 9561, heur = -8.0, depth = 8
iter = 5806, queue = 9562, heur = -8.0, depth = 8
iter = 5807, queue = 9565, heur = -8.0, depth = 8
iter = 5808, queue = 9566, heur = -8.0, depth = 8
iter = 5809, queue = 9567, heur = -8.0, depth = 8
iter = 5810, queue = 9566, heur = -8.0, depth = 8
iter = 5811, queue = 9567, heur = -8.0, depth = 8
iter = 5812, queue = 9568, heur = -8.0, depth = 8
iter = 5813, queue = 9570, heur = -8.0, depth = 8
iter = 5814, queue = 9573, heur = -8.0, depth = 8
iter = 5815, queue = 9574, heur = -8.0, depth = 8
iter = 5816, queue = 9576, heur = -8.0, depth = 8
iter = 5817, queue = 9579, heur = -8.0, depth = 8
iter = 5818, queue = 9579, heur = -8.0, depth = 8
iter = 5819, queue = 9582, heur = -8.0, depth = 8
iter = 5820, queue = 9585, heur = -8.0, depth = 8
iter = 5821, queue = 9588, heur = -8.0, depth = 8
iter = 5822, queue = 9591, heur = -8.0, depth = 8
iter = 5823, queue = 9594, heur = -8.0, depth = 8
iter = 5824, queue = 9597, heur = -8.0, depth = 9
iter = 5825, queue = 9599, heur = -8.0, depth = 8
iter = 5826, queue = 9601, heur = -8.0, depth = 8
iter = 5827, queue = 9602, heur = -8.0, depth = 8
iter = 5828, queue = 9602, heur = -8.0, depth = 8
iter = 5829, queue = 9605, heur = -8.0, depth = 8
iter = 5830, queue = 9606, heur = -8.0, depth = 8
iter = 5831, queue = 9609, heur = -8.0, depth = 8
iter = 5832, queue = 9612, heur = -8.0, depth = 9
iter = 5833, queue = 9613, heur = -8.0, depth = 8
iter = 5834, queue = 9614, heur = -8.0, depth = 8
iter = 5835, queue = 9617, heur = -8.0, depth = 8
iter = 5836, queue = 9620, heur = -8.0, depth = 8
iter = 5837, queue = 9623, heur = -8.0, depth = 8
iter = 5838, queue = 9626, heur = -8.0, depth = 8
iter = 5839, queue = 9627, heur = -8.0, depth = 8
```

```
iter = 5840, queue = 9626, heur = -8.0, depth = 8
iter = 5841, queue = 9629, heur = -8.0, depth = 8
iter = 5842, queue = 9630, heur = -8.0, depth = 8
iter = 5843, queue = 9631, heur = -8.0, depth = 8
iter = 5844, queue = 9632, heur = -8.0, depth = 8
iter = 5845, queue = 9633, heur = -8.0, depth = 8
iter = 5846, queue = 9634, heur = -8.0, depth = 8
iter = 5847, queue = 9635, heur = -8.0, depth = 8
iter = 5848, queue = 9638, heur = -8.0, depth = 8
iter = 5849, queue = 9641, heur = -8.0, depth = 8
iter = 5850, queue = 9644, heur = -8.0, depth = 8
iter = 5851, queue = 9645, heur = -8.0, depth = 8
iter = 5852, queue = 9646, heur = -8.0, depth = 8
iter = 5853, queue = 9648, heur = -8.0, depth = 8
iter = 5854, queue = 9651, heur = -8.0, depth = 8
iter = 5855, queue = 9654, heur = -8.0, depth = 8
iter = 5856, queue = 9656, heur = -8.0, depth = 8
iter = 5857, queue = 9657, heur = -8.0, depth = 8
iter = 5858, queue = 9660, heur = -8.0, depth = 8
iter = 5859, queue = 9663, heur = -8.0, depth = 8
iter = 5860, queue = 9664, heur = -8.0, depth = 10
iter = 5861, queue = 9665, heur = -8.0, depth = 8
iter = 5862, queue = 9668, heur = -8.0, depth = 8
iter = 5863, queue = 9670, heur = -8.0, depth = 8
iter = 5864, queue = 9671, heur = -8.0, depth = 10
iter = 5865, queue = 9674, heur = -8.0, depth = 10
iter = 5866, queue = 9675, heur = -8.0, depth = 8
iter = 5867, queue = 9676, heur = -8.0, depth = 10
iter = 5868, queue = 9679, heur = -8.0, depth = 8
iter = 5869, queue = 9682, heur = -8.0, depth = 8
iter = 5870, queue = 9681, heur = -8.0, depth = 8
iter = 5871, queue = 9681, heur = -8.0, depth = 8
iter = 5872, queue = 9682, heur = -8.0, depth = 8
iter = 5873, queue = 9683, heur = -8.0, depth = 8
iter = 5874, queue = 9685, heur = -8.0, depth = 9
iter = 5875, queue = 9685, heur = -8.0, depth = 8
iter = 5876, queue = 9686, heur = -8.0, depth = 9
iter = 5877, queue = 9688, heur = -8.0, depth = 8
iter = 5878, queue = 9689, heur = -8.0, depth = 9
iter = 5879, queue = 9692, heur = -8.0, depth = 8
iter = 5880, queue = 9693, heur = -8.0, depth = 9
iter = 5881, queue = 9696, heur = -8.0, depth = 8
iter = 5882, queue = 9697, heur = -8.0, depth = 8
iter = 5883, queue = 9696, heur = -8.0, depth = 8
iter = 5884, queue = 9697, heur = -8.0, depth = 8
iter = 5885, queue = 9700, heur = -8.0, depth = 8
iter = 5886, queue = 9703, heur = -8.0, depth = 8
iter = 5887, queue = 9706, heur = -8.0, depth = 8
iter = 5888, queue = 9706, heur = -8.0, depth = 12
iter = 5889, queue = 9709, heur = -8.0, depth = 8
iter = 5890, queue = 9710, heur = -8.0, depth = 8
iter = 5891, queue = 9711, heur = -8.0, depth = 8
iter = 5892, queue = 9712, heur = -8.0, depth = 8
iter = 5893, queue = 9715, heur = -8.0, depth = 8
iter = 5894, queue = 9716, heur = -8.0, depth = 8
iter = 5895, queue = 9719, heur = -8.0, depth = 8
iter = 5896, queue = 9720, heur = -8.0, depth = 8
iter = 5897, queue = 9720, heur = -8.0, depth = 8
iter = 5898, queue = 9722, heur = -8.0, depth = 8
```

```
iter = 5899, queue = 9723, heur = -8.0, depth = 8
iter = 5900, queue = 9724, heur = -8.0, depth = 8
iter = 5901, queue = 9727, heur = -8.0, depth = 8
iter = 5902, queue = 9728, heur = -8.0, depth = 8
iter = 5903, queue = 9731, heur = -8.0, depth = 9
iter = 5904, queue = 9732, heur = -8.0, depth = 8
iter = 5905, queue = 9733, heur = -8.0, depth = 8
iter = 5906, queue = 9736, heur = -8.0, depth = 8
iter = 5907, queue = 9737, heur = -8.0, depth = 8
iter = 5908, queue = 9739, heur = -8.0, depth = 8
iter = 5909, queue = 9740, heur = -8.0, depth = 8
iter = 5910, queue = 9743, heur = -8.0, depth = 8
iter = 5911, queue = 9744, heur = -8.0, depth = 8
iter = 5912, queue = 9745, heur = -8.0, depth = 8
iter = 5913, queue = 9746, heur = -8.0, depth = 8
iter = 5914, queue = 9749, heur = -8.0, depth = 8
iter = 5915, queue = 9750, heur = -8.0, depth = 8
iter = 5916, queue = 9752, heur = -8.0, depth = 8
iter = 5917, queue = 9753, heur = -8.0, depth = 8
iter = 5918, queue = 9756, heur = -8.0, depth = 8
iter = 5919, queue = 9757, heur = -8.0, depth = 8
iter = 5920, queue = 9759, heur = -8.0, depth = 8
iter = 5921, queue = 9761, heur = -8.0, depth = 8
iter = 5922, queue = 9763, heur = -8.0, depth = 8
iter = 5923, queue = 9764, heur = -8.0, depth = 8
iter = 5924, queue = 9765, heur = -8.0, depth = 9
iter = 5925, queue = 9765, heur = -8.0, depth = 8
iter = 5926, queue = 9766, heur = -8.0, depth = 8
iter = 5927, queue = 9767, heur = -8.0, depth = 8
iter = 5928, queue = 9766, heur = -8.0, depth = 8
iter = 5929, queue = 9767, heur = -8.0, depth = 8
iter = 5930, queue = 9768, heur = -8.0, depth = 8
iter = 5931, queue = 9769, heur = -8.0, depth = 8
iter = 5932, queue = 9772, heur = -8.0, depth = 8
iter = 5933, queue = 9775, heur = -8.0, depth = 8
iter = 5934, queue = 9776, heur = -8.0, depth = 8
iter = 5935, queue = 9779, heur = -8.0, depth = 8
iter = 5936, queue = 9780, heur = -8.0, depth = 9
iter = 5937, queue = 9782, heur = -8.0, depth = 8
iter = 5938, queue = 9782, heur = -8.0, depth = 8
iter = 5939, queue = 9785, heur = -8.0, depth = 8
iter = 5940, queue = 9786, heur = -8.0, depth = 8
iter = 5941, queue = 9787, heur = -8.0, depth = 9
iter = 5942, queue = 9787, heur = -8.0, depth = 8
iter = 5943, queue = 9790, heur = -8.0, depth = 8
iter = 5944, queue = 9791, heur = -8.0, depth = 8
iter = 5945, queue = 9793, heur = -8.0, depth = 9
iter = 5946, queue = 9795, heur = -8.0, depth = 8
iter = 5947, queue = 9798, heur = -8.0, depth = 8
iter = 5948, queue = 9801, heur = -8.0, depth = 8
iter = 5949, queue = 9802, heur = -8.0, depth = 8
iter = 5950, queue = 9803, heur = -8.0, depth = 8
iter = 5951, queue = 9804, heur = -8.0, depth = 8
iter = 5952, queue = 9807, heur = -8.0, depth = 8
iter = 5953, queue = 9809, heur = -8.0, depth = 9
iter = 5954, queue = 9810, heur = -8.0, depth = 8
iter = 5955, queue = 9811, heur = -8.0, depth = 8
iter = 5956, queue = 9812, heur = -8.0, depth = 9
iter = 5957, queue = 9812, heur = -8.0, depth = 8
```

```
iter = 5958, queue = 9815, heur = -8.0, depth = 8
iter = 5959, queue = 9817, heur = -8.0, depth = 8
iter = 5960, queue = 9816, heur = -8.0, depth = 9
iter = 5961, queue = 9819, heur = -8.0, depth = 8
iter = 5962, queue = 9820, heur = -8.0, depth = 8
iter = 5963, queue = 9821, heur = -8.0, depth = 8
iter = 5964, queue = 9821, heur = -8.0, depth = 8
iter = 5965, queue = 9822, heur = -8.0, depth = 8
iter = 5966, queue = 9823, heur = -8.0, depth = 8
iter = 5967, queue = 9826, heur = -8.0, depth = 8
iter = 5968, queue = 9827, heur = -8.0, depth = 10
iter = 5969, queue = 9828, heur = -8.0, depth = 8
iter = 5970, queue = 9830, heur = -8.0, depth = 8
iter = 5971, queue = 9831, heur = -8.0, depth = 8
iter = 5972, queue = 9832, heur = -8.0, depth = 8
iter = 5973, queue = 9835, heur = -8.0, depth = 8
iter = 5974, queue = 9837, heur = -8.0, depth = 8
iter = 5975, queue = 9838, heur = -8.0, depth = 8
iter = 5976, queue = 9838, heur = -8.0, depth = 8
iter = 5977, queue = 9839, heur = -8.0, depth = 8
iter = 5978, queue = 9842, heur = -8.0, depth = 8
iter = 5979, queue = 9843, heur = -8.0, depth = 8
iter = 5980, queue = 9846, heur = -8.0, depth = 8
iter = 5981, queue = 9849, heur = -8.0, depth = 8
iter = 5982, queue = 9848, heur = -8.0, depth = 8
iter = 5983, queue = 9849, heur = -8.0, depth = 8
iter = 5984, queue = 9852, heur = -8.0, depth = 8
iter = 5985, queue = 9853, heur = -8.0, depth = 8
iter = 5986, queue = 9854, heur = -8.0, depth = 8
iter = 5987, queue = 9856, heur = -8.0, depth = 8
iter = 5988, queue = 9857, heur = -8.0, depth = 8
iter = 5989, queue = 9858, heur = -8.0, depth = 8
iter = 5990, queue = 9861, heur = -8.0, depth = 8
iter = 5991, queue = 9863, heur = -8.0, depth = 8
iter = 5992, queue = 9866, heur = -8.0, depth = 8
iter = 5993, queue = 9869, heur = -8.0, depth = 8
iter = 5994, queue = 9871, heur = -8.0, depth = 8
iter = 5995, queue = 9874, heur = -8.0, depth = 8
iter = 5996, queue = 9876, heur = -8.0, depth = 8
iter = 5997, queue = 9875, heur = -8.0, depth = 8
iter = 5998, queue = 9874, heur = -8.0, depth = 8
iter = 5999, queue = 9875, heur = -8.0, depth = 8
iter = 6000, queue = 9876, heur = -8.0, depth = 8
iter = 6001, queue = 9877, heur = -8.0, depth = 8
iter = 6002, queue = 9876, heur = -8.0, depth = 8
iter = 6003, queue = 9879, heur = -8.0, depth = 8
iter = 6004, queue = 9882, heur = -8.0, depth = 8
iter = 6005, queue = 9883, heur = -8.0, depth = 8
iter = 6006, queue = 9886, heur = -8.0, depth = 8
iter = 6007, queue = 9888, heur = -8.0, depth = 8
iter = 6008, queue = 9891, heur = -8.0, depth = 8
iter = 6009, queue = 9890, heur = -8.0, depth = 8
iter = 6010, queue = 9893, heur = -8.0, depth = 8
iter = 6011, queue = 9896, heur = -8.0, depth = 8
iter = 6012, queue = 9897, heur = -8.0, depth = 8
iter = 6013, queue = 9897, heur = -8.0, depth = 8
iter = 6014, queue = 9897, heur = -8.0, depth = 8
iter = 6015, queue = 9899, heur = -8.0, depth = 8
iter = 6016, queue = 9901, heur = -8.0, depth = 8
```

```
iter = 6017, queue = 9904, heur = -8.0, depth = 8
iter = 6018, queue = 9907, heur = -8.0, depth = 8
iter = 6019, queue = 9908, heur = -8.0, depth = 8
iter = 6020, queue = 9910, heur = -8.0, depth = 8
iter = 6021, queue = 9911, heur = -8.0, depth = 8
iter = 6022, queue = 9912, heur = -8.0, depth = 8
iter = 6023, queue = 9913, heur = -8.0, depth = 8
iter = 6024, queue = 9914, heur = -8.0, depth = 8
iter = 6025, queue = 9913, heur = -8.0, depth = 8
iter = 6026, queue = 9914, heur = -8.0, depth = 10
iter = 6027, queue = 9916, heur = -8.0, depth = 8
iter = 6028, queue = 9917, heur = -8.0, depth = 8
iter = 6029, queue = 9918, heur = -8.0, depth = 8
iter = 6030, queue = 9921, heur = -8.0, depth = 8
iter = 6031, queue = 9924, heur = -8.0, depth = 8
iter = 6032, queue = 9925, heur = -8.0, depth = 10
iter = 6033, queue = 9924, heur = -8.0, depth = 8
iter = 6034, queue = 9925, heur = -8.0, depth = 8
iter = 6035, queue = 9928, heur = -8.0, depth = 8
iter = 6036, queue = 9929, heur = -8.0, depth = 8
iter = 6037, queue = 9930, heur = -8.0, depth = 8
iter = 6038, queue = 9932, heur = -8.0, depth = 8
iter = 6039, queue = 9934, heur = -8.0, depth = 8
iter = 6040, queue = 9937, heur = -8.0, depth = 8
iter = 6041, queue = 9938, heur = -8.0, depth = 8
iter = 6042, queue = 9938, heur = -8.0, depth = 8
iter = 6043, queue = 9940, heur = -8.0, depth = 8
iter = 6044, queue = 9941, heur = -8.0, depth = 8
iter = 6045, queue = 9944, heur = -8.0, depth = 8
iter = 6046, queue = 9945, heur = -8.0, depth = 8
iter = 6047, queue = 9946, heur = -8.0, depth = 8
iter = 6048, queue = 9947, heur = -8.0, depth = 8
iter = 6049, queue = 9950, heur = -8.0, depth = 8
iter = 6050, queue = 9952, heur = -8.0, depth = 8
iter = 6051, queue = 9952, heur = -8.0, depth = 8
iter = 6052, queue = 9953, heur = -8.0, depth = 8
iter = 6053, queue = 9954, heur = -8.0, depth = 8
iter = 6054, queue = 9955, heur = -8.0, depth = 8
iter = 6055, queue = 9957, heur = -8.0, depth = 8
iter = 6056, queue = 9959, heur = -8.0, depth = 8
iter = 6057, queue = 9960, heur = -8.0, depth = 8
iter = 6058, queue = 9963, heur = -8.0, depth = 8
iter = 6059, queue = 9964, heur = -8.0, depth = 8
iter = 6060, queue = 9967, heur = -8.0, depth = 8
iter = 6061, queue = 9968, heur = -8.0, depth = 8
iter = 6062, queue = 9969, heur = -8.0, depth = 8
iter = 6063, queue = 9970, heur = -8.0, depth = 8
iter = 6064, queue = 9970, heur = -8.0, depth = 8
iter = 6065, queue = 9970, heur = -8.0, depth = 8
iter = 6066, queue = 9973, heur = -8.0, depth = 8
iter = 6067, queue = 9974, heur = -8.0, depth = 8
iter = 6068, queue = 9975, heur = -8.0, depth = 8
iter = 6069, queue = 9976, heur = -8.0, depth = 8
iter = 6070, queue = 9979, heur = -8.0, depth = 8
iter = 6071, queue = 9979, heur = -8.0, depth = 8
iter = 6072, queue = 9979, heur = -8.0, depth = 8
iter = 6073, queue = 9980, heur = -8.0, depth = 8
iter = 6074, queue = 9981, heur = -8.0, depth = 8
iter = 6075, queue = 9982, heur = -8.0, depth = 8
```

```
iter = 6076, queue = 9983, heur = -8.0, depth = 8
iter = 6077, queue = 9986, heur = -8.0, depth = 8
iter = 6078, queue = 9987, heur = -8.0, depth = 8
iter = 6079, queue = 9986, heur = -8.0, depth = 8
iter = 6080, queue = 9987, heur = -8.0, depth = 8
iter = 6081, queue = 9988, heur = -8.0, depth = 8
iter = 6082, queue = 9989, heur = -8.0, depth = 8
iter = 6083, queue = 9992, heur = -8.0, depth = 8
iter = 6084, queue = 9995, heur = -8.0, depth = 8
iter = 6085, queue = 9997, heur = -8.0, depth = 8
iter = 6086, queue = 9998, heur = -8.0, depth = 8
iter = 6087, queue = 10000, heur = -8.0, depth = 8
iter = 6088, queue = 10001, heur = -8.0, depth = 8
iter = 6089, queue = 10004, heur = -8.0, depth = 8
iter = 6090, queue = 10005, heur = -8.0, depth = 8
iter = 6091, queue = 10008, heur = -8.0, depth = 8
iter = 6092, queue = 10011, heur = -8.0, depth = 8
iter = 6093, queue = 10010, heur = -8.0, depth = 8
iter = 6094, queue = 10011, heur = -8.0, depth = 8
iter = 6095, queue = 10012, heur = -8.0, depth = 8
iter = 6096, queue = 10013, heur = -8.0, depth = 8
iter = 6097, queue = 10014, heur = -8.0, depth = 8
iter = 6098, queue = 10017, heur = -8.0, depth = 8
iter = 6099, queue = 10020, heur = -8.0, depth = 8
iter = 6100, queue = 10023, heur = -8.0, depth = 10
iter = 6101, queue = 10026, heur = -8.0, depth = 8
iter = 6102, queue = 10028, heur = -8.0, depth = 8
iter = 6103, queue = 10031, heur = -8.0, depth = 10
iter = 6104, queue = 10032, heur = -8.0, depth = 10
iter = 6105, queue = 10033, heur = -8.0, depth = 8
iter = 6106, queue = 10034, heur = -8.0, depth = 10
iter = 6107, queue = 10035, heur = -8.0, depth = 10
iter = 6108, queue = 10038, heur = -8.0, depth = 8
iter = 6109, queue = 10041, heur = -8.0, depth = 8
iter = 6110, queue = 10042, heur = -8.0, depth = 8
iter = 6111, queue = 10042, heur = -8.0, depth = 8
iter = 6112, queue = 10043, heur = -8.0, depth = 8
iter = 6113, queue = 10046, heur = -8.0, depth = 8
iter = 6114, queue = 10048, heur = -8.0, depth = 8
iter = 6115, queue = 10051, heur = -8.0, depth = 8
iter = 6116, queue = 10050, heur = -8.0, depth = 8
iter = 6117, queue = 10053, heur = -8.0, depth = 8
iter = 6118, queue = 10053, heur = -8.0, depth = 9
iter = 6119, queue = 10055, heur = -8.0, depth = 9
iter = 6120, queue = 10056, heur = -8.0, depth = 8
iter = 6121, queue = 10057, heur = -8.0, depth = 9
iter = 6122, queue = 10058, heur = -8.0, depth = 10
iter = 6123, queue = 10061, heur = -8.0, depth = 8
iter = 6124, queue = 10062, heur = -8.0, depth = 8
iter = 6125, queue = 10063, heur = -8.0, depth = 9
iter = 6126, queue = 10066, heur = -8.0, depth = 8
iter = 6127, queue = 10067, heur = -8.0, depth = 8
iter = 6128, queue = 10066, heur = -8.0, depth = 8
iter = 6129, queue = 10067, heur = -8.0, depth = 9
iter = 6130, queue = 10068, heur = -8.0, depth = 10
iter = 6131, queue = 10071, heur = -8.0, depth = 10
iter = 6132, queue = 10074, heur = -8.0, depth = 8
iter = 6133, queue = 10075, heur = -8.0, depth = 9
iter = 6134, queue = 10078, heur = -8.0, depth = 9
```

```
iter = 6135, queue = 10081, heur = -8.0, depth = 8
iter = 6136, queue = 10082, heur = -8.0, depth = 8
iter = 6137, queue = 10082, heur = -8.0, depth = 9
iter = 6138, queue = 10083, heur = -8.0, depth = 8
iter = 6139, queue = 10084, heur = -8.0, depth = 8
iter = 6140, queue = 10085, heur = -8.0, depth = 8
iter = 6141, queue = 10088, heur = -8.0, depth = 8
iter = 6142, queue = 10089, heur = -8.0, depth = 8
iter = 6143, queue = 10092, heur = -8.0, depth = 8
iter = 6144, queue = 10094, heur = -8.0, depth = 8
iter = 6145, queue = 10094, heur = -8.0, depth = 8
iter = 6146, queue = 10095, heur = -8.0, depth = 8
iter = 6147, queue = 10097, heur = -8.0, depth = 8
iter = 6148, queue = 10098, heur = -8.0, depth = 8
iter = 6149, queue = 10097, heur = -8.0, depth = 9
iter = 6150, queue = 10098, heur = -8.0, depth = 8
iter = 6151, queue = 10101, heur = -8.0, depth = 8
iter = 6152, queue = 10103, heur = -8.0, depth = 8
iter = 6153, queue = 10104, heur = -8.0, depth = 9
iter = 6154, queue = 10106, heur = -8.0, depth = 9
iter = 6155, queue = 10108, heur = -8.0, depth = 8
iter = 6156, queue = 10109, heur = -8.0, depth = 8
iter = 6157, queue = 10111, heur = -8.0, depth = 8
iter = 6158, queue = 10111, heur = -8.0, depth = 9
iter = 6159, queue = 10112, heur = -8.0, depth = 8
iter = 6160, queue = 10113, heur = -8.0, depth = 8
iter = 6161, queue = 10116, heur = -8.0, depth = 9
iter = 6162, queue = 10119, heur = -8.0, depth = 8
iter = 6163, queue = 10120, heur = -8.0, depth = 8
iter = 6164, queue = 10121, heur = -8.0, depth = 8
iter = 6165, queue = 10122, heur = -8.0, depth = 9
iter = 6166, queue = 10122, heur = -8.0, depth = 8
iter = 6167, queue = 10123, heur = -8.0, depth = 8
iter = 6168, queue = 10126, heur = -8.0, depth = 9
iter = 6169, queue = 10127, heur = -8.0, depth = 9
iter = 6170, queue = 10130, heur = -8.0, depth = 8
iter = 6171, queue = 10129, heur = -8.0, depth = 8
iter = 6172, queue = 10132, heur = -8.0, depth = 8
iter = 6173, queue = 10135, heur = -8.0, depth = 8
iter = 6174, queue = 10138, heur = -8.0, depth = 8
iter = 6175, queue = 10139, heur = -8.0, depth = 8
iter = 6176, queue = 10142, heur = -8.0, depth = 8
iter = 6177, queue = 10143, heur = -8.0, depth = 8
iter = 6178, queue = 10146, heur = -8.0, depth = 8
iter = 6179, queue = 10145, heur = -8.0, depth = 8
iter = 6180, queue = 10144, heur = -8.0, depth = 8
iter = 6181, queue = 10146, heur = -8.0, depth = 8
iter = 6182, queue = 10148, heur = -8.0, depth = 8
iter = 6183, queue = 10149, heur = -8.0, depth = 9
iter = 6184, queue = 10151, heur = -8.0, depth = 8
iter = 6185, queue = 10152, heur = -8.0, depth = 10
iter = 6186, queue = 10153, heur = -8.0, depth = 8
iter = 6187, queue = 10154, heur = -8.0, depth = 8
iter = 6188, queue = 10156, heur = -8.0, depth = 9
iter = 6189, queue = 10157, heur = -8.0, depth = 8
iter = 6190, queue = 10158, heur = -8.0, depth = 9
iter = 6191, queue = 10157, heur = -8.0, depth = 8
iter = 6192, queue = 10159, heur = -8.0, depth = 8
iter = 6193, queue = 10160, heur = -8.0, depth = 8
```

```
iter = 6194, queue = 10163, heur = -8.0, depth = 8
iter = 6195, queue = 10166, heur = -8.0, depth = 8
iter = 6196, queue = 10168, heur = -8.0, depth = 8
iter = 6197, queue = 10171, heur = -8.0, depth = 8
iter = 6198, queue = 10173, heur = -8.0, depth = 8
iter = 6199, queue = 10173, heur = -8.0, depth = 8
iter = 6200, queue = 10174, heur = -8.0, depth = 8
iter = 6201, queue = 10175, heur = -8.0, depth = 8
iter = 6202, queue = 10178, heur = -8.0, depth = 8
iter = 6203, queue = 10181, heur = -8.0, depth = 8
iter = 6204, queue = 10182, heur = -8.0, depth = 8
iter = 6205, queue = 10182, heur = -8.0, depth = 8
iter = 6206, queue = 10185, heur = -8.0, depth = 8
iter = 6207, queue = 10188, heur = -8.0, depth = 8
iter = 6208, queue = 10189, heur = -8.0, depth = 8
iter = 6209, queue = 10192, heur = -8.0, depth = 9
iter = 6210, queue = 10195, heur = -8.0, depth = 9
iter = 6211, queue = 10198, heur = -8.0, depth = 8
iter = 6212, queue = 10199, heur = -8.0, depth = 8
iter = 6213, queue = 10202, heur = -8.0, depth = 9
iter = 6214, queue = 10205, heur = -8.0, depth = 8
iter = 6215, queue = 10206, heur = -8.0, depth = 8
iter = 6216, queue = 10209, heur = -8.0, depth = 8
iter = 6217, queue = 10210, heur = -8.0, depth = 8
iter = 6218, queue = 10211, heur = -8.0, depth = 8
iter = 6219, queue = 10213, heur = -8.0, depth = 8
iter = 6220, queue = 10214, heur = -8.0, depth = 8
iter = 6221, queue = 10214, heur = -8.0, depth = 8
iter = 6222, queue = 10215, heur = -8.0, depth = 8
iter = 6223, queue = 10217, heur = -8.0, depth = 10
iter = 6224, queue = 10218, heur = -8.0, depth = 8
iter = 6225, queue = 10219, heur = -8.0, depth = 8
iter = 6226, queue = 10220, heur = -8.0, depth = 8
iter = 6227, queue = 10223, heur = -8.0, depth = 8
iter = 6228, queue = 10224, heur = -8.0, depth = 8
iter = 6229, queue = 10226, heur = -8.0, depth = 8
iter = 6230, queue = 10227, heur = -8.0, depth = 8
iter = 6231, queue = 10228, heur = -8.0, depth = 8
iter = 6232, queue = 10231, heur = -8.0, depth = 10
iter = 6233, queue = 10233, heur = -8.0, depth = 8
iter = 6234, queue = 10235, heur = -8.0, depth = 8
iter = 6235, queue = 10237, heur = -8.0, depth = 8
iter = 6236, queue = 10238, heur = -8.0, depth = 8
iter = 6237, queue = 10241, heur = -8.0, depth = 8
iter = 6238, queue = 10243, heur = -8.0, depth = 8
iter = 6239, queue = 10246, heur = -8.0, depth = 8
iter = 6240, queue = 10247, heur = -8.0, depth = 8
iter = 6241, queue = 10249, heur = -8.0, depth = 8
iter = 6242, queue = 10249, heur = -8.0, depth = 8
iter = 6243, queue = 10251, heur = -8.0, depth = 8
iter = 6244, queue = 10251, heur = -8.0, depth = 10
iter = 6245, queue = 10254, heur = -8.0, depth = 10
iter = 6246, queue = 10255, heur = -8.0, depth = 8
iter = 6247, queue = 10258, heur = -8.0, depth = 10
iter = 6248, queue = 10259, heur = -8.0, depth = 8
iter = 6249, queue = 10260, heur = -8.0, depth = 8
iter = 6250, queue = 10262, heur = -8.0, depth = 8
iter = 6251, queue = 10261, heur = -8.0, depth = 8
iter = 6252, queue = 10264, heur = -8.0, depth = 8
```

```
iter = 6253, queue = 10264, heur = -8.0, depth = 8
iter = 6254, queue = 10265, heur = -8.0, depth = 8
iter = 6255, queue = 10266, heur = -8.0, depth = 8
iter = 6256, queue = 10267, heur = -8.0, depth = 8
iter = 6257, queue = 10268, heur = -8.0, depth = 8
iter = 6258, queue = 10269, heur = -8.0, depth = 8
iter = 6259, queue = 10270, heur = -8.0, depth = 8
iter = 6260, queue = 10271, heur = -8.0, depth = 8
iter = 6261, queue = 10271, heur = -8.0, depth = 8
iter = 6262, queue = 10272, heur = -8.0, depth = 8
iter = 6263, queue = 10273, heur = -8.0, depth = 8
iter = 6264, queue = 10272, heur = -8.0, depth = 8
iter = 6265, queue = 10275, heur = -8.0, depth = 8
iter = 6266, queue = 10278, heur = -8.0, depth = 8
iter = 6267, queue = 10280, heur = -8.0, depth = 8
iter = 6268, queue = 10282, heur = -8.0, depth = 8
iter = 6269, queue = 10285, heur = -8.0, depth = 8
iter = 6270, queue = 10287, heur = -8.0, depth = 8
iter = 6271, queue = 10290, heur = -8.0, depth = 8
iter = 6272, queue = 10291, heur = -8.0, depth = 8
iter = 6273, queue = 10291, heur = -8.0, depth = 8
iter = 6274, queue = 10292, heur = -8.0, depth = 8
iter = 6275, queue = 10293, heur = -8.0, depth = 9
iter = 6276, queue = 10296, heur = -8.0, depth = 8
iter = 6277, queue = 10297, heur = -8.0, depth = 8
iter = 6278, queue = 10300, heur = -8.0, depth = 9
iter = 6279, queue = 10301, heur = -8.0, depth = 8
iter = 6280, queue = 10303, heur = -8.0, depth = 9
iter = 6281, queue = 10304, heur = -8.0, depth = 9
iter = 6282, queue = 10305, heur = -8.0, depth = 8
iter = 6283, queue = 10304, heur = -8.0, depth = 8
iter = 6284, queue = 10305, heur = -8.0, depth = 8
iter = 6285, queue = 10308, heur = -8.0, depth = 8
iter = 6286, queue = 10311, heur = -8.0, depth = 9
iter = 6287, queue = 10312, heur = -8.0, depth = 9
iter = 6288, queue = 10314, heur = -8.0, depth = 8
iter = 6289, queue = 10314, heur = -8.0, depth = 8
iter = 6290, queue = 10315, heur = -8.0, depth = 8
iter = 6291, queue = 10316, heur = -8.0, depth = 8
iter = 6292, queue = 10319, heur = -8.0, depth = 8
iter = 6293, queue = 10319, heur = -8.0, depth = 8
iter = 6294, queue = 10321, heur = -8.0, depth = 8
iter = 6295, queue = 10324, heur = -8.0, depth = 8
iter = 6296, queue = 10325, heur = -8.0, depth = 9
iter = 6297, queue = 10327, heur = -8.0, depth = 8
iter = 6298, queue = 10328, heur = -8.0, depth = 8
iter = 6299, queue = 10329, heur = -8.0, depth = 9
iter = 6300, queue = 10332, heur = -8.0, depth = 8
iter = 6301, queue = 10335, heur = -8.0, depth = 9
iter = 6302, queue = 10336, heur = -8.0, depth = 8
iter = 6303, queue = 10336, heur = -8.0, depth = 8
iter = 6304, queue = 10337, heur = -8.0, depth = 8
iter = 6305, queue = 10340, heur = -8.0, depth = 8
iter = 6306, queue = 10341, heur = -8.0, depth = 8
iter = 6307, queue = 10342, heur = -8.0, depth = 8
iter = 6308, queue = 10343, heur = -8.0, depth = 8
iter = 6309, queue = 10344, heur = -8.0, depth = 8
iter = 6310, queue = 10347, heur = -8.0, depth = 8
iter = 6311, queue = 10349, heur = -8.0, depth = 8
```

```
iter = 6312, queue = 10350, heur = -8.0, depth = 8
iter = 6313, queue = 10351, heur = -8.0, depth = 8
iter = 6314, queue = 10353, heur = -8.0, depth = 8
iter = 6315, queue = 10354, heur = -8.0, depth = 8
iter = 6316, queue = 10357, heur = -8.0, depth = 8
iter = 6317, queue = 10359, heur = -8.0, depth = 8
iter = 6318, queue = 10360, heur = -8.0, depth = 8
iter = 6319, queue = 10361, heur = -8.0, depth = 8
iter = 6320, queue = 10362, heur = -8.0, depth = 9
iter = 6321, queue = 10364, heur = -8.0, depth = 8
iter = 6322, queue = 10367, heur = -8.0, depth = 8
iter = 6323, queue = 10368, heur = -8.0, depth = 8
iter = 6324, queue = 10371, heur = -8.0, depth = 9
iter = 6325, queue = 10370, heur = -8.0, depth = 8
iter = 6326, queue = 10371, heur = -8.0, depth = 9
iter = 6327, queue = 10372, heur = -8.0, depth = 9
iter = 6328, queue = 10374, heur = -8.0, depth = 9
iter = 6329, queue = 10376, heur = -8.0, depth = 9
iter = 6330, queue = 10378, heur = -8.0, depth = 9
iter = 6331, queue = 10379, heur = -8.0, depth = 8
iter = 6332, queue = 10382, heur = -8.0, depth = 8
iter = 6333, queue = 10383, heur = -8.0, depth = 9
iter = 6334, queue = 10384, heur = -8.0, depth = 9
iter = 6335, queue = 10385, heur = -8.0, depth = 8
iter = 6336, queue = 10385, heur = -8.0, depth = 8
iter = 6337, queue = 10387, heur = -8.0, depth = 8
iter = 6338, queue = 10386, heur = -8.0, depth = 8
iter = 6339, queue = 10388, heur = -8.0, depth = 8
iter = 6340, queue = 10391, heur = -8.0, depth = 8
iter = 6341, queue = 10392, heur = -8.0, depth = 8
iter = 6342, queue = 10395, heur = -8.0, depth = 8
iter = 6343, queue = 10396, heur = -8.0, depth = 8
iter = 6344, queue = 10397, heur = -8.0, depth = 8
iter = 6345, queue = 10398, heur = -8.0, depth = 8
iter = 6346, queue = 10401, heur = -8.0, depth = 9
iter = 6347, queue = 10400, heur = -8.0, depth = 8
iter = 6348, queue = 10403, heur = -8.0, depth = 8
iter = 6349, queue = 10403, heur = -8.0, depth = 8
iter = 6350, queue = 10406, heur = -8.0, depth = 8
iter = 6351, queue = 10407, heur = -8.0, depth = 8
iter = 6352, queue = 10408, heur = -8.0, depth = 8
iter = 6353, queue = 10409, heur = -8.0, depth = 8
iter = 6354, queue = 10412, heur = -8.0, depth = 9
iter = 6355, queue = 10415, heur = -8.0, depth = 8
iter = 6356, queue = 10416, heur = -8.0, depth = 9
iter = 6357, queue = 10419, heur = -8.0, depth = 8
iter = 6358, queue = 10422, heur = -8.0, depth = 8
iter = 6359, queue = 10423, heur = -8.0, depth = 8
iter = 6360, queue = 10424, heur = -8.0, depth = 8
iter = 6361, queue = 10426, heur = -8.0, depth = 8
iter = 6362, queue = 10429, heur = -8.0, depth = 8
iter = 6363, queue = 10430, heur = -8.0, depth = 8
iter = 6364, queue = 10431, heur = -8.0, depth = 8
iter = 6365, queue = 10432, heur = -8.0, depth = 8
iter = 6366, queue = 10435, heur = -8.0, depth = 8
iter = 6367, queue = 10434, heur = -8.0, depth = 8
iter = 6368, queue = 10435, heur = -8.0, depth = 8
iter = 6369, queue = 10436, heur = -8.0, depth = 8
iter = 6370, queue = 10438, heur = -8.0, depth = 8
```

```
iter = 6371, queue = 10440, heur = -8.0, depth = 8
iter = 6372, queue = 10441, heur = -8.0, depth = 8
iter = 6373, queue = 10442, heur = -8.0, depth = 8
iter = 6374, queue = 10442, heur = -8.0, depth = 8
iter = 6375, queue = 10445, heur = -8.0, depth = 8
iter = 6376, queue = 10448, heur = -8.0, depth = 8
iter = 6377, queue = 10449, heur = -8.0, depth = 8
iter = 6378, queue = 10450, heur = -8.0, depth = 9
iter = 6379, queue = 10451, heur = -8.0, depth = 9
iter = 6380, queue = 10453, heur = -8.0, depth = 8
iter = 6381, queue = 10454, heur = -8.0, depth = 9
iter = 6382, queue = 10456, heur = -8.0, depth = 8
iter = 6383, queue = 10457, heur = -8.0, depth = 8
iter = 6384, queue = 10458, heur = -8.0, depth = 8
iter = 6385, queue = 10458, heur = -8.0, depth = 8
iter = 6386, queue = 10459, heur = -8.0, depth = 8
iter = 6387, queue = 10459, heur = -8.0, depth = 8
iter = 6388, queue = 10461, heur = -8.0, depth = 8
iter = 6389, queue = 10462, heur = -8.0, depth = 8
iter = 6390, queue = 10463, heur = -8.0, depth = 8
iter = 6391, queue = 10466, heur = -8.0, depth = 8
iter = 6392, queue = 10469, heur = -8.0, depth = 8
iter = 6393, queue = 10470, heur = -8.0, depth = 8
iter = 6394, queue = 10473, heur = -8.0, depth = 8
iter = 6395, queue = 10474, heur = -8.0, depth = 8
iter = 6396, queue = 10477, heur = -8.0, depth = 8
iter = 6397, queue = 10478, heur = -8.0, depth = 8
iter = 6398, queue = 10481, heur = -8.0, depth = 8
iter = 6399, queue = 10484, heur = -8.0, depth = 8
iter = 6400, queue = 10485, heur = -8.0, depth = 8
iter = 6401, queue = 10488, heur = -8.0, depth = 8
iter = 6402, queue = 10487, heur = -8.0, depth = 8
iter = 6403, queue = 10488, heur = -8.0, depth = 8
iter = 6404, queue = 10491, heur = -8.0, depth = 8
iter = 6405, queue = 10492, heur = -8.0, depth = 8
iter = 6406, queue = 10495, heur = -8.0, depth = 8
iter = 6407, queue = 10498, heur = -8.0, depth = 8
iter = 6408, queue = 10498, heur = -8.0, depth = 8
iter = 6409, queue = 10501, heur = -8.0, depth = 8
iter = 6410, queue = 10501, heur = -8.0, depth = 8
iter = 6411, queue = 10504, heur = -8.0, depth = 8
iter = 6412, queue = 10506, heur = -8.0, depth = 8
iter = 6413, queue = 10509, heur = -8.0, depth = 8
iter = 6414, queue = 10511, heur = -8.0, depth = 8
iter = 6415, queue = 10512, heur = -8.0, depth = 8
iter = 6416, queue = 10513, heur = -8.0, depth = 8
iter = 6417, queue = 10514, heur = -8.0, depth = 8
iter = 6418, queue = 10515, heur = -8.0, depth = 8
iter = 6419, queue = 10516, heur = -8.0, depth = 8
iter = 6420, queue = 10519, heur = -8.0, depth = 8
iter = 6421, queue = 10522, heur = -8.0, depth = 8
iter = 6422, queue = 10525, heur = -8.0, depth = 8
iter = 6423, queue = 10528, heur = -8.0, depth = 8
iter = 6424, queue = 10529, heur = -8.0, depth = 8
iter = 6425, queue = 10531, heur = -8.0, depth = 8
iter = 6426, queue = 10534, heur = -8.0, depth = 8
iter = 6427, queue = 10535, heur = -8.0, depth = 8
iter = 6428, queue = 10536, heur = -8.0, depth = 8
iter = 6429, queue = 10535, heur = -8.0, depth = 8
```

```
iter = 6430, queue = 10536, heur = -8.0, depth = 8
iter = 6431, queue = 10539, heur = -8.0, depth = 8
iter = 6432, queue = 10540, heur = -8.0, depth = 8
iter = 6433, queue = 10541, heur = -8.0, depth = 8
iter = 6434, queue = 10544, heur = -8.0, depth = 8
iter = 6435, queue = 10547, heur = -8.0, depth = 8
iter = 6436, queue = 10549, heur = -8.0, depth = 8
iter = 6437, queue = 10552, heur = -8.0, depth = 8
iter = 6438, queue = 10554, heur = -8.0, depth = 8
iter = 6439, queue = 10554, heur = -8.0, depth = 8
iter = 6440, queue = 10554, heur = -8.0, depth = 8
iter = 6441, queue = 10555, heur = -8.0, depth = 8
iter = 6442, queue = 10556, heur = -8.0, depth = 8
iter = 6443, queue = 10558, heur = -8.0, depth = 8
iter = 6444, queue = 10559, heur = -8.0, depth = 8
iter = 6445, queue = 10560, heur = -8.0, depth = 8
iter = 6446, queue = 10559, heur = -8.0, depth = 8
iter = 6447, queue = 10562, heur = -8.0, depth = 8
iter = 6448, queue = 10561, heur = -8.0, depth = 8
iter = 6449, queue = 10562, heur = -8.0, depth = 8
iter = 6450, queue = 10563, heur = -8.0, depth = 8
iter = 6451, queue = 10564, heur = -8.0, depth = 8
iter = 6452, queue = 10567, heur = -8.0, depth = 8
iter = 6453, queue = 10568, heur = -8.0, depth = 8
iter = 6454, queue = 10570, heur = -8.0, depth = 8
iter = 6455, queue = 10572, heur = -8.0, depth = 8
iter = 6456, queue = 10573, heur = -8.0, depth = 8
iter = 6457, queue = 10575, heur = -8.0, depth = 8
iter = 6458, queue = 10578, heur = -8.0, depth = 8
iter = 6459, queue = 10580, heur = -8.0, depth = 8
iter = 6460, queue = 10583, heur = -8.0, depth = 8
iter = 6461, queue = 10582, heur = -8.0, depth = 8
iter = 6462, queue = 10583, heur = -8.0, depth = 8
iter = 6463, queue = 10584, heur = -8.0, depth = 8
iter = 6464, queue = 10587, heur = -8.0, depth = 8
iter = 6465, queue = 10590, heur = -8.0, depth = 8
iter = 6466, queue = 10591, heur = -8.0, depth = 8
iter = 6467, queue = 10592, heur = -8.0, depth = 8
iter = 6468, queue = 10595, heur = -8.0, depth = 8
iter = 6469, queue = 10598, heur = -8.0, depth = 8
iter = 6470, queue = 10601, heur = -8.0, depth = 8
iter = 6471, queue = 10600, heur = -8.0, depth = 8
iter = 6472, queue = 10603, heur = -8.0, depth = 8
iter = 6473, queue = 10604, heur = -8.0, depth = 8
iter = 6474, queue = 10605, heur = -8.0, depth = 8
iter = 6475, queue = 10606, heur = -8.0, depth = 8
iter = 6476, queue = 10608, heur = -8.0, depth = 8
iter = 6477, queue = 10609, heur = -8.0, depth = 8
iter = 6478, queue = 10610, heur = -8.0, depth = 9
iter = 6479, queue = 10611, heur = -8.0, depth = 8
iter = 6480, queue = 10614, heur = -8.0, depth = 8
iter = 6481, queue = 10617, heur = -8.0, depth = 8
iter = 6482, queue = 10618, heur = -8.0, depth = 8
iter = 6483, queue = 10619, heur = -8.0, depth = 8
iter = 6484, queue = 10622, heur = -8.0, depth = 8
iter = 6485, queue = 10624, heur = -8.0, depth = 8
iter = 6486, queue = 10625, heur = -8.0, depth = 9
iter = 6487, queue = 10628, heur = -8.0, depth = 8
iter = 6488, queue = 10629, heur = -8.0, depth = 8
```

```
iter = 6489, queue = 10632, heur = -8.0, depth = 8
iter = 6490, queue = 10635, heur = -8.0, depth = 8
iter = 6491, queue = 10636, heur = -8.0, depth = 8
iter = 6492, queue = 10639, heur = -8.0, depth = 8
iter = 6493, queue = 10640, heur = -8.0, depth = 8
iter = 6494, queue = 10640, heur = -8.0, depth = 8
iter = 6495, queue = 10643, heur = -8.0, depth = 8
iter = 6496, queue = 10645, heur = -8.0, depth = 9
iter = 6497, queue = 10646, heur = -8.0, depth = 8
iter = 6498, queue = 10647, heur = -8.0, depth = 8
iter = 6499, queue = 10650, heur = -8.0, depth = 8
iter = 6500, queue = 10652, heur = -8.0, depth = 8
iter = 6501, queue = 10654, heur = -8.0, depth = 8
iter = 6502, queue = 10653, heur = -8.0, depth = 8
iter = 6503, queue = 10656, heur = -8.0, depth = 8
iter = 6504, queue = 10657, heur = -8.0, depth = 8
iter = 6505, queue = 10658, heur = -8.0, depth = 8
iter = 6506, queue = 10659, heur = -8.0, depth = 8
iter = 6507, queue = 10662, heur = -8.0, depth = 8
iter = 6508, queue = 10665, heur = -8.0, depth = 8
iter = 6509, queue = 10666, heur = -8.0, depth = 8
iter = 6510, queue = 10666, heur = -8.0, depth = 8
iter = 6511, queue = 10669, heur = -8.0, depth = 8
iter = 6512, queue = 10670, heur = -8.0, depth = 8
iter = 6513, queue = 10673, heur = -8.0, depth = 8
iter = 6514, queue = 10676, heur = -8.0, depth = 8
iter = 6515, queue = 10679, heur = -8.0, depth = 8
iter = 6516, queue = 10680, heur = -8.0, depth = 8
iter = 6517, queue = 10683, heur = -8.0, depth = 8
iter = 6518, queue = 10684, heur = -8.0, depth = 8
iter = 6519, queue = 10685, heur = -8.0, depth = 8
iter = 6520, queue = 10686, heur = -8.0, depth = 8
iter = 6521, queue = 10688, heur = -8.0, depth = 8
iter = 6522, queue = 10691, heur = -8.0, depth = 8
iter = 6523, queue = 10692, heur = -8.0, depth = 8
iter = 6524, queue = 10695, heur = -8.0, depth = 8
iter = 6525, queue = 10696, heur = -8.0, depth = 8
iter = 6526, queue = 10699, heur = -8.0, depth = 8
iter = 6527, queue = 10699, heur = -8.0, depth = 8
iter = 6528, queue = 10701, heur = -8.0, depth = 8
iter = 6529, queue = 10704, heur = -8.0, depth = 9
iter = 6530, queue = 10704, heur = -8.0, depth = 8
iter = 6531, queue = 10705, heur = -8.0, depth = 8
iter = 6532, queue = 10707, heur = -8.0, depth = 8
iter = 6533, queue = 10706, heur = -8.0, depth = 9
iter = 6534, queue = 10708, heur = -8.0, depth = 8
iter = 6535, queue = 10709, heur = -8.0, depth = 8
iter = 6536, queue = 10712, heur = -8.0, depth = 8
iter = 6537, queue = 10713, heur = -8.0, depth = 8
iter = 6538, queue = 10716, heur = -8.0, depth = 8
iter = 6539, queue = 10716, heur = -8.0, depth = 8
iter = 6540, queue = 10719, heur = -8.0, depth = 8
iter = 6541, queue = 10720, heur = -8.0, depth = 8
iter = 6542, queue = 10723, heur = -8.0, depth = 8
iter = 6543, queue = 10722, heur = -8.0, depth = 8
iter = 6544, queue = 10725, heur = -8.0, depth = 8
iter = 6545, queue = 10727, heur = -8.0, depth = 8
iter = 6546, queue = 10727, heur = -8.0, depth = 9
iter = 6547, queue = 10728, heur = -8.0, depth = 8
```

```
iter = 6548, queue = 10730, heur = -8.0, depth = 8
iter = 6549, queue = 10733, heur = -8.0, depth = 8
iter = 6550, queue = 10736, heur = -8.0, depth = 8
iter = 6551, queue = 10738, heur = -8.0, depth = 8
iter = 6552, queue = 10739, heur = -8.0, depth = 8
iter = 6553, queue = 10740, heur = -8.0, depth = 8
iter = 6554, queue = 10741, heur = -8.0, depth = 9
iter = 6555, queue = 10743, heur = -8.0, depth = 8
iter = 6556, queue = 10744, heur = -8.0, depth = 9
iter = 6557, queue = 10747, heur = -8.0, depth = 8
iter = 6558, queue = 10750, heur = -8.0, depth = 8
iter = 6559, queue = 10752, heur = -8.0, depth = 9
iter = 6560, queue = 10753, heur = -8.0, depth = 9
iter = 6561, queue = 10756, heur = -8.0, depth = 9
iter = 6562, queue = 10759, heur = -8.0, depth = 9
iter = 6563, queue = 10761, heur = -8.0, depth = 8
iter = 6564, queue = 10763, heur = -8.0, depth = 9
iter = 6565, queue = 10766, heur = -8.0, depth = 8
iter = 6566, queue = 10769, heur = -8.0, depth = 8
iter = 6567, queue = 10772, heur = -8.0, depth = 9
iter = 6568, queue = 10773, heur = -8.0, depth = 9
iter = 6569, queue = 10776, heur = -8.0, depth = 8
iter = 6570, queue = 10777, heur = -8.0, depth = 9
iter = 6571, queue = 10780, heur = -8.0, depth = 8
iter = 6572, queue = 10783, heur = -8.0, depth = 8
iter = 6573, queue = 10785, heur = -8.0, depth = 8
iter = 6574, queue = 10788, heur = -8.0, depth = 8
iter = 6575, queue = 10789, heur = -8.0, depth = 8
iter = 6576, queue = 10789, heur = -8.0, depth = 8
iter = 6577, queue = 10790, heur = -8.0, depth = 8
iter = 6578, queue = 10791, heur = -8.0, depth = 8
iter = 6579, queue = 10792, heur = -8.0, depth = 8
iter = 6580, queue = 10793, heur = -8.0, depth = 8
iter = 6581, queue = 10794, heur = -8.0, depth = 8
iter = 6582, queue = 10797, heur = -8.0, depth = 8
iter = 6583, queue = 10800, heur = -8.0, depth = 8
iter = 6584, queue = 10803, heur = -8.0, depth = 8
iter = 6585, queue = 10805, heur = -8.0, depth = 8
iter = 6586, queue = 10806, heur = -8.0, depth = 8
iter = 6587, queue = 10809, heur = -8.0, depth = 8
iter = 6588, queue = 10810, heur = -8.0, depth = 8
iter = 6589, queue = 10813, heur = -8.0, depth = 8
iter = 6590, queue = 10812, heur = -8.0, depth = 8
iter = 6591, queue = 10813, heur = -8.0, depth = 8
iter = 6592, queue = 10815, heur = -8.0, depth = 9
iter = 6593, queue = 10816, heur = -8.0, depth = 9
iter = 6594, queue = 10815, heur = -8.0, depth = 8
iter = 6595, queue = 10816, heur = -8.0, depth = 8
iter = 6596, queue = 10817, heur = -8.0, depth = 8
iter = 6597, queue = 10818, heur = -8.0, depth = 8
iter = 6598, queue = 10817, heur = -8.0, depth = 8
iter = 6599, queue = 10819, heur = -8.0, depth = 8
iter = 6600, queue = 10821, heur = -8.0, depth = 8
iter = 6601, queue = 10822, heur = -8.0, depth = 8
iter = 6602, queue = 10825, heur = -8.0, depth = 8
iter = 6603, queue = 10826, heur = -8.0, depth = 8
iter = 6604, queue = 10827, heur = -8.0, depth = 8
iter = 6605, queue = 10828, heur = -8.0, depth = 8
iter = 6606, queue = 10829, heur = -8.0, depth = 8
```

```
iter = 6607, queue = 10828, heur = -8.0, depth = 8
iter = 6608, queue = 10830, heur = -8.0, depth = 8
iter = 6609, queue = 10832, heur = -8.0, depth = 8
iter = 6610, queue = 10833, heur = -8.0, depth = 8
iter = 6611, queue = 10834, heur = -8.0, depth = 8
iter = 6612, queue = 10835, heur = -8.0, depth = 8
iter = 6613, queue = 10836, heur = -8.0, depth = 8
iter = 6614, queue = 10837, heur = -8.0, depth = 8
iter = 6615, queue = 10840, heur = -8.0, depth = 8
iter = 6616, queue = 10839, heur = -8.0, depth = 8
iter = 6617, queue = 10840, heur = -8.0, depth = 8
iter = 6618, queue = 10841, heur = -8.0, depth = 8
iter = 6619, queue = 10842, heur = -8.0, depth = 8
iter = 6620, queue = 10845, heur = -8.0, depth = 8
iter = 6621, queue = 10846, heur = -8.0, depth = 8
iter = 6622, queue = 10846, heur = -8.0, depth = 8
iter = 6623, queue = 10847, heur = -8.0, depth = 8
iter = 6624, queue = 10850, heur = -8.0, depth = 8
iter = 6625, queue = 10851, heur = -8.0, depth = 8
iter = 6626, queue = 10853, heur = -8.0, depth = 8
iter = 6627, queue = 10853, heur = -8.0, depth = 8
iter = 6628, queue = 10854, heur = -8.0, depth = 8
iter = 6629, queue = 10854, heur = -8.0, depth = 8
iter = 6630, queue = 10857, heur = -8.0, depth = 8
iter = 6631, queue = 10858, heur = -8.0, depth = 8
iter = 6632, queue = 10859, heur = -8.0, depth = 8
iter = 6633, queue = 10860, heur = -8.0, depth = 8
iter = 6634, queue = 10861, heur = -8.0, depth = 9
iter = 6635, queue = 10864, heur = -8.0, depth = 8
iter = 6636, queue = 10864, heur = -8.0, depth = 8
iter = 6637, queue = 10867, heur = -8.0, depth = 9
iter = 6638, queue = 10868, heur = -8.0, depth = 8
iter = 6639, queue = 10869, heur = -8.0, depth = 8
iter = 6640, queue = 10871, heur = -8.0, depth = 8
iter = 6641, queue = 10874, heur = -8.0, depth = 8
iter = 6642, queue = 10875, heur = -8.0, depth = 9
iter = 6643, queue = 10876, heur = -8.0, depth = 9
iter = 6644, queue = 10877, heur = -8.0, depth = 8
iter = 6645, queue = 10880, heur = -8.0, depth = 8
iter = 6646, queue = 10882, heur = -8.0, depth = 8
iter = 6647, queue = 10883, heur = -8.0, depth = 8
iter = 6648, queue = 10884, heur = -8.0, depth = 8
iter = 6649, queue = 10887, heur = -8.0, depth = 9
iter = 6650, queue = 10888, heur = -8.0, depth = 9
iter = 6651, queue = 10889, heur = -8.0, depth = 8
iter = 6652, queue = 10890, heur = -8.0, depth = 9
iter = 6653, queue = 10893, heur = -8.0, depth = 9
iter = 6654, queue = 10896, heur = -8.0, depth = 8
iter = 6655, queue = 10899, heur = -8.0, depth = 8
iter = 6656, queue = 10899, heur = -8.0, depth = 8
iter = 6657, queue = 10900, heur = -8.0, depth = 9
iter = 6658, queue = 10903, heur = -8.0, depth = 8
iter = 6659, queue = 10904, heur = -8.0, depth = 8
iter = 6660, queue = 10905, heur = -8.0, depth = 8
iter = 6661, queue = 10906, heur = -8.0, depth = 8
iter = 6662, queue = 10907, heur = -8.0, depth = 8
iter = 6663, queue = 10907, heur = -8.0, depth = 8
iter = 6664, queue = 10907, heur = -8.0, depth = 8
iter = 6665, queue = 10908, heur = -8.0, depth = 8
```

```
iter = 6666, queue = 10910, heur = -8.0, depth = 8
iter = 6667, queue = 10912, heur = -8.0, depth = 8
iter = 6668, queue = 10915, heur = -8.0, depth = 8
iter = 6669, queue = 10918, heur = -8.0, depth = 8
iter = 6670, queue = 10921, heur = -8.0, depth = 8
iter = 6671, queue = 10924, heur = -8.0, depth = 8
iter = 6672, queue = 10927, heur = -8.0, depth = 8
iter = 6673, queue = 10930, heur = -8.0, depth = 8
iter = 6674, queue = 10933, heur = -8.0, depth = 8
iter = 6675, queue = 10934, heur = -8.0, depth = 8
iter = 6676, queue = 10936, heur = -8.0, depth = 8
iter = 6677, queue = 10937, heur = -8.0, depth = 8
iter = 6678, queue = 10938, heur = -8.0, depth = 8
iter = 6679, queue = 10941, heur = -8.0, depth = 8
iter = 6680, queue = 10941, heur = -8.0, depth = 8
iter = 6681, queue = 10942, heur = -8.0, depth = 8
iter = 6682, queue = 10945, heur = -8.0, depth = 8
iter = 6683, queue = 10946, heur = -8.0, depth = 8
iter = 6684, queue = 10948, heur = -8.0, depth = 8
iter = 6685, queue = 10949, heur = -8.0, depth = 8
iter = 6686, queue = 10951, heur = -8.0, depth = 8
iter = 6687, queue = 10952, heur = -8.0, depth = 8
iter = 6688, queue = 10955, heur = -8.0, depth = 8
iter = 6689, queue = 10956, heur = -8.0, depth = 8
iter = 6690, queue = 10957, heur = -8.0, depth = 8
iter = 6691, queue = 10958, heur = -8.0, depth = 8
iter = 6692, queue = 10959, heur = -8.0, depth = 8
iter = 6693, queue = 10960, heur = -8.0, depth = 8
iter = 6694, queue = 10961, heur = -8.0, depth = 8
iter = 6695, queue = 10962, heur = -8.0, depth = 8
iter = 6696, queue = 10965, heur = -8.0, depth = 8
iter = 6697, queue = 10966, heur = -8.0, depth = 8
iter = 6698, queue = 10967, heur = -8.0, depth = 9
iter = 6699, queue = 10969, heur = -8.0, depth = 8
iter = 6700, queue = 10970, heur = -8.0, depth = 9
iter = 6701, queue = 10971, heur = -8.0, depth = 8
iter = 6702, queue = 10974, heur = -8.0, depth = 8
iter = 6703, queue = 10975, heur = -8.0, depth = 8
iter = 6704, queue = 10976, heur = -8.0, depth = 8
iter = 6705, queue = 10977, heur = -8.0, depth = 8
iter = 6706, queue = 10980, heur = -8.0, depth = 8
iter = 6707, queue = 10981, heur = -8.0, depth = 8
iter = 6708, queue = 10980, heur = -8.0, depth = 8
iter = 6709, queue = 10980, heur = -8.0, depth = 9
iter = 6710, queue = 10983, heur = -8.0, depth = 9
iter = 6711, queue = 10984, heur = -8.0, depth = 8
iter = 6712, queue = 10985, heur = -8.0, depth = 8
iter = 6713, queue = 10984, heur = -8.0, depth = 9
iter = 6714, queue = 10985, heur = -8.0, depth = 9
iter = 6715, queue = 10988, heur = -8.0, depth = 9
iter = 6716, queue = 10989, heur = -8.0, depth = 8
iter = 6717, queue = 10992, heur = -8.0, depth = 8
iter = 6718, queue = 10993, heur = -8.0, depth = 8
iter = 6719, queue = 10993, heur = -8.0, depth = 8
iter = 6720, queue = 10994, heur = -8.0, depth = 9
iter = 6721, queue = 10995, heur = -8.0, depth = 8
iter = 6722, queue = 10995, heur = -8.0, depth = 8
iter = 6723, queue = 10997, heur = -8.0, depth = 9
iter = 6724, queue = 11000, heur = -8.0, depth = 8
```

```
iter = 6725, queue = 11001, heur = -8.0, depth = 8
iter = 6726, queue = 11004, heur = -8.0, depth = 8
iter = 6727, queue = 11005, heur = -8.0, depth = 8
iter = 6728, queue = 11008, heur = -8.0, depth = 8
iter = 6729, queue = 11010, heur = -8.0, depth = 8
iter = 6730, queue = 11011, heur = -8.0, depth = 8
iter = 6731, queue = 11014, heur = -8.0, depth = 8
iter = 6732, queue = 11016, heur = -8.0, depth = 8
iter = 6733, queue = 11019, heur = -8.0, depth = 9
iter = 6734, queue = 11021, heur = -8.0, depth = 8
iter = 6735, queue = 11022, heur = -8.0, depth = 8
iter = 6736, queue = 11023, heur = -8.0, depth = 8
iter = 6737, queue = 11026, heur = -8.0, depth = 8
iter = 6738, queue = 11029, heur = -8.0, depth = 8
iter = 6739, queue = 11030, heur = -8.0, depth = 9
iter = 6740, queue = 11031, heur = -8.0, depth = 8
iter = 6741, queue = 11034, heur = -8.0, depth = 8
iter = 6742, queue = 11036, heur = -8.0, depth = 8
iter = 6743, queue = 11038, heur = -8.0, depth = 9
iter = 6744, queue = 11039, heur = -8.0, depth = 8
iter = 6745, queue = 11041, heur = -8.0, depth = 8
iter = 6746, queue = 11042, heur = -8.0, depth = 9
iter = 6747, queue = 11045, heur = -8.0, depth = 8
iter = 6748, queue = 11046, heur = -8.0, depth = 10
iter = 6749, queue = 11048, heur = -8.0, depth = 8
iter = 6750, queue = 11049, heur = -8.0, depth = 8
iter = 6751, queue = 11049, heur = -8.0, depth = 8
iter = 6752, queue = 11052, heur = -8.0, depth = 10
iter = 6753, queue = 11055, heur = -8.0, depth = 10
iter = 6754, queue = 11058, heur = -8.0, depth = 8
iter = 6755, queue = 11061, heur = -8.0, depth = 8
iter = 6756, queue = 11064, heur = -8.0, depth = 8
iter = 6757, queue = 11065, heur = -8.0, depth = 8
iter = 6758, queue = 11067, heur = -8.0, depth = 8
iter = 6759, queue = 11068, heur = -8.0, depth = 8
iter = 6760, queue = 11068, heur = -8.0, depth = 8
iter = 6761, queue = 11070, heur = -8.0, depth = 8
iter = 6762, queue = 11073, heur = -8.0, depth = 8
iter = 6763, queue = 11074, heur = -8.0, depth = 9
iter = 6764, queue = 11077, heur = -8.0, depth = 8
iter = 6765, queue = 11080, heur = -8.0, depth = 8
iter = 6766, queue = 11083, heur = -8.0, depth = 8
iter = 6767, queue = 11086, heur = -8.0, depth = 8
iter = 6768, queue = 11086, heur = -8.0, depth = 8
iter = 6769, queue = 11087, heur = -8.0, depth = 8
iter = 6770, queue = 11086, heur = -8.0, depth = 9
iter = 6771, queue = 11089, heur = -8.0, depth = 8
iter = 6772, queue = 11090, heur = -8.0, depth = 8
iter = 6773, queue = 11090, heur = -8.0, depth = 8
iter = 6774, queue = 11091, heur = -8.0, depth = 8
iter = 6775, queue = 11092, heur = -8.0, depth = 8
iter = 6776, queue = 11094, heur = -8.0, depth = 8
iter = 6777, queue = 11095, heur = -8.0, depth = 8
iter = 6778, queue = 11096, heur = -8.0, depth = 8
iter = 6779, queue = 11097, heur = -8.0, depth = 8
iter = 6780, queue = 11098, heur = -8.0, depth = 8
iter = 6781, queue = 11100, heur = -8.0, depth = 8
iter = 6782, queue = 11101, heur = -8.0, depth = 8
iter = 6783, queue = 11101, heur = -8.0, depth = 8
```

```
iter = 6784, queue = 11104, heur = -8.0, depth = 8
iter = 6785, queue = 11107, heur = -8.0, depth = 8
iter = 6786, queue = 11108, heur = -8.0, depth = 8
iter = 6787, queue = 11107, heur = -8.0, depth = 8
iter = 6788, queue = 11109, heur = -8.0, depth = 8
iter = 6789, queue = 11110, heur = -8.0, depth = 8
iter = 6790, queue = 11111, heur = -8.0, depth = 8
iter = 6791, queue = 11112, heur = -8.0, depth = 8
iter = 6792, queue = 11112, heur = -8.0, depth = 8
iter = 6793, queue = 11114, heur = -8.0, depth = 8
iter = 6794, queue = 11117, heur = -8.0, depth = 8
iter = 6795, queue = 11120, heur = -8.0, depth = 8
iter = 6796, queue = 11121, heur = -8.0, depth = 8
iter = 6797, queue = 11120, heur = -8.0, depth = 8
iter = 6798, queue = 11119, heur = -8.0, depth = 8
iter = 6799, queue = 11122, heur = -8.0, depth = 9
iter = 6800, queue = 11121, heur = -8.0, depth = 8
iter = 6801, queue = 11124, heur = -8.0, depth = 8
iter = 6802, queue = 11125, heur = -8.0, depth = 8
iter = 6803, queue = 11126, heur = -8.0, depth = 8
iter = 6804, queue = 11129, heur = -8.0, depth = 8
iter = 6805, queue = 11132, heur = -8.0, depth = 8
iter = 6806, queue = 11133, heur = -8.0, depth = 8
iter = 6807, queue = 11136, heur = -8.0, depth = 8
iter = 6808, queue = 11135, heur = -8.0, depth = 8
iter = 6809, queue = 11136, heur = -8.0, depth = 8
iter = 6810, queue = 11137, heur = -8.0, depth = 8
iter = 6811, queue = 11138, heur = -8.0, depth = 8
iter = 6812, queue = 11141, heur = -8.0, depth = 8
iter = 6813, queue = 11143, heur = -8.0, depth = 8
iter = 6814, queue = 11144, heur = -8.0, depth = 8
iter = 6815, queue = 11145, heur = -8.0, depth = 8
iter = 6816, queue = 11145, heur = -8.0, depth = 8
iter = 6817, queue = 11148, heur = -8.0, depth = 8
iter = 6818, queue = 11151, heur = -8.0, depth = 8
iter = 6819, queue = 11152, heur = -8.0, depth = 8
iter = 6820, queue = 11154, heur = -8.0, depth = 10
iter = 6821, queue = 11157, heur = -8.0, depth = 8
iter = 6822, queue = 11160, heur = -8.0, depth = 8
iter = 6823, queue = 11161, heur = -8.0, depth = 10
iter = 6824, queue = 11164, heur = -8.0, depth = 10
iter = 6825, queue = 11167, heur = -8.0, depth = 8
iter = 6826, queue = 11168, heur = -8.0, depth = 8
iter = 6827, queue = 11167, heur = -8.0, depth = 8
iter = 6828, queue = 11167, heur = -8.0, depth = 8
iter = 6829, queue = 11167, heur = -8.0, depth = 8
iter = 6830, queue = 11168, heur = -8.0, depth = 8
iter = 6831, queue = 11169, heur = -8.0, depth = 8
iter = 6832, queue = 11170, heur = -8.0, depth = 8
iter = 6833, queue = 11171, heur = -8.0, depth = 8
iter = 6834, queue = 11172, heur = -8.0, depth = 8
iter = 6835, queue = 11175, heur = -8.0, depth = 8
iter = 6836, queue = 11176, heur = -8.0, depth = 8
iter = 6837, queue = 11179, heur = -8.0, depth = 9
iter = 6838, queue = 11182, heur = -8.0, depth = 8
iter = 6839, queue = 11185, heur = -8.0, depth = 8
iter = 6840, queue = 11186, heur = -8.0, depth = 9
iter = 6841, queue = 11189, heur = -8.0, depth = 8
iter = 6842, queue = 11190, heur = -8.0, depth = 8
```

```
iter = 6843, queue = 11191, heur = -8.0, depth = 8
iter = 6844, queue = 11192, heur = -8.0, depth = 8
iter = 6845, queue = 11193, heur = -8.0, depth = 8
iter = 6846, queue = 11194, heur = -8.0, depth = 8
iter = 6847, queue = 11195, heur = -8.0, depth = 8
iter = 6848, queue = 11197, heur = -8.0, depth = 8
iter = 6849, queue = 11198, heur = -8.0, depth = 8
iter = 6850, queue = 11201, heur = -8.0, depth = 8
iter = 6851, queue = 11202, heur = -8.0, depth = 8
iter = 6852, queue = 11205, heur = -8.0, depth = 8
iter = 6853, queue = 11208, heur = -8.0, depth = 9
iter = 6854, queue = 11211, heur = -8.0, depth = 8
iter = 6855, queue = 11212, heur = -8.0, depth = 8
iter = 6856, queue = 11213, heur = -8.0, depth = 8
iter = 6857, queue = 11214, heur = -8.0, depth = 8
iter = 6858, queue = 11215, heur = -8.0, depth = 8
iter = 6859, queue = 11216, heur = -8.0, depth = 8
iter = 6860, queue = 11217, heur = -8.0, depth = 8
iter = 6861, queue = 11218, heur = -8.0, depth = 8
iter = 6862, queue = 11221, heur = -8.0, depth = 8
iter = 6863, queue = 11223, heur = -8.0, depth = 8
iter = 6864, queue = 11225, heur = -8.0, depth = 8
iter = 6865, queue = 11227, heur = -8.0, depth = 8
iter = 6866, queue = 11226, heur = -8.0, depth = 8
iter = 6867, queue = 11229, heur = -8.0, depth = 8
iter = 6868, queue = 11230, heur = -8.0, depth = 8
iter = 6869, queue = 11230, heur = -8.0, depth = 8
iter = 6870, queue = 11231, heur = -8.0, depth = 8
iter = 6871, queue = 11232, heur = -8.0, depth = 8
iter = 6872, queue = 11233, heur = -8.0, depth = 8
iter = 6873, queue = 11236, heur = -8.0, depth = 8
iter = 6874, queue = 11237, heur = -8.0, depth = 8
iter = 6875, queue = 11239, heur = -8.0, depth = 8
iter = 6876, queue = 11240, heur = -8.0, depth = 8
iter = 6877, queue = 11243, heur = -8.0, depth = 8
iter = 6878, queue = 11244, heur = -8.0, depth = 8
iter = 6879, queue = 11245, heur = -8.0, depth = 8
iter = 6880, queue = 11246, heur = -8.0, depth = 9
iter = 6881, queue = 11246, heur = -8.0, depth = 8
iter = 6882, queue = 11247, heur = -8.0, depth = 9
iter = 6883, queue = 11248, heur = -8.0, depth = 8
iter = 6884, queue = 11247, heur = -8.0, depth = 8
iter = 6885, queue = 11250, heur = -8.0, depth = 9
iter = 6886, queue = 11251, heur = -8.0, depth = 8
iter = 6887, queue = 11253, heur = -8.0, depth = 8
iter = 6888, queue = 11254, heur = -8.0, depth = 8
iter = 6889, queue = 11257, heur = -8.0, depth = 8
iter = 6890, queue = 11259, heur = -8.0, depth = 8
iter = 6891, queue = 11260, heur = -8.0, depth = 8
iter = 6892, queue = 11263, heur = -8.0, depth = 8
iter = 6893, queue = 11265, heur = -8.0, depth = 8
iter = 6894, queue = 11266, heur = -8.0, depth = 8
iter = 6895, queue = 11266, heur = -8.0, depth = 8
iter = 6896, queue = 11268, heur = -8.0, depth = 8
iter = 6897, queue = 11269, heur = -8.0, depth = 8
iter = 6898, queue = 11270, heur = -8.0, depth = 8
iter = 6899, queue = 11273, heur = -8.0, depth = 8
iter = 6900, queue = 11276, heur = -8.0, depth = 8
iter = 6901, queue = 11279, heur = -8.0, depth = 9
```

```
iter = 6902, queue = 11282, heur = -8.0, depth = 8
iter = 6903, queue = 11283, heur = -8.0, depth = 8
iter = 6904, queue = 11284, heur = -8.0, depth = 8
iter = 6905, queue = 11285, heur = -8.0, depth = 8
iter = 6906, queue = 11288, heur = -8.0, depth = 8
iter = 6907, queue = 11291, heur = -8.0, depth = 8
iter = 6908, queue = 11292, heur = -8.0, depth = 8
iter = 6909, queue = 11293, heur = -8.0, depth = 8
iter = 6910, queue = 11294, heur = -8.0, depth = 8
iter = 6911, queue = 11297, heur = -8.0, depth = 8
iter = 6912, queue = 11298, heur = -8.0, depth = 8
iter = 6913, queue = 11299, heur = -8.0, depth = 8
iter = 6914, queue = 11300, heur = -8.0, depth = 8
iter = 6915, queue = 11301, heur = -8.0, depth = 8
iter = 6916, queue = 11304, heur = -8.0, depth = 8
iter = 6917, queue = 11307, heur = -8.0, depth = 8
iter = 6918, queue = 11308, heur = -8.0, depth = 8
iter = 6919, queue = 11308, heur = -8.0, depth = 8
iter = 6920, queue = 11311, heur = -8.0, depth = 8
iter = 6921, queue = 11312, heur = -8.0, depth = 8
iter = 6922, queue = 11315, heur = -8.0, depth = 8
iter = 6923, queue = 11317, heur = -8.0, depth = 8
iter = 6924, queue = 11318, heur = -8.0, depth = 8
iter = 6925, queue = 11317, heur = -8.0, depth = 8
iter = 6926, queue = 11320, heur = -8.0, depth = 9
iter = 6927, queue = 11323, heur = -8.0, depth = 8
iter = 6928, queue = 11326, heur = -8.0, depth = 8
iter = 6929, queue = 11329, heur = -8.0, depth = 9
iter = 6930, queue = 11331, heur = -8.0, depth = 9
iter = 6931, queue = 11334, heur = -8.0, depth = 8
iter = 6932, queue = 11337, heur = -8.0, depth = 9
iter = 6933, queue = 11340, heur = -8.0, depth = 8
iter = 6934, queue = 11341, heur = -8.0, depth = 8
iter = 6935, queue = 11342, heur = -8.0, depth = 8
iter = 6936, queue = 11343, heur = -8.0, depth = 8
iter = 6937, queue = 11344, heur = -8.0, depth = 8
iter = 6938, queue = 11347, heur = -8.0, depth = 8
iter = 6939, queue = 11348, heur = -8.0, depth = 8
iter = 6940, queue = 11351, heur = -8.0, depth = 8
iter = 6941, queue = 11354, heur = -8.0, depth = 8
iter = 6942, queue = 11355, heur = -8.0, depth = 8
iter = 6943, queue = 11356, heur = -8.0, depth = 8
iter = 6944, queue = 11357, heur = -8.0, depth = 8
iter = 6945, queue = 11358, heur = -8.0, depth = 8
iter = 6946, queue = 11359, heur = -8.0, depth = 8
iter = 6947, queue = 11362, heur = -8.0, depth = 8
iter = 6948, queue = 11365, heur = -8.0, depth = 8
iter = 6949, queue = 11366, heur = -8.0, depth = 8
iter = 6950, queue = 11365, heur = -8.0, depth = 8
iter = 6951, queue = 11368, heur = -8.0, depth = 8
iter = 6952, queue = 11369, heur = -8.0, depth = 8
iter = 6953, queue = 11370, heur = -8.0, depth = 8
iter = 6954, queue = 11373, heur = -8.0, depth = 8
iter = 6955, queue = 11376, heur = -8.0, depth = 8
iter = 6956, queue = 11377, heur = -8.0, depth = 8
iter = 6957, queue = 11378, heur = -8.0, depth = 8
iter = 6958, queue = 11377, heur = -8.0, depth = 8
iter = 6959, queue = 11379, heur = -8.0, depth = 8
iter = 6960, queue = 11378, heur = -8.0, depth = 8
```

```
iter = 6961, queue = 11377, heur = -8.0, depth = 8
iter = 6962, queue = 11379, heur = -8.0, depth = 8
iter = 6963, queue = 11380, heur = -8.0, depth = 8
iter = 6964, queue = 11383, heur = -8.0, depth = 8
iter = 6965, queue = 11384, heur = -8.0, depth = 8
iter = 6966, queue = 11386, heur = -8.0, depth = 8
iter = 6967, queue = 11386, heur = -8.0, depth = 8
iter = 6968, queue = 11389, heur = -8.0, depth = 8
iter = 6969, queue = 11390, heur = -8.0, depth = 8
iter = 6970, queue = 11391, heur = -8.0, depth = 8
iter = 6971, queue = 11394, heur = -8.0, depth = 8
iter = 6972, queue = 11397, heur = -8.0, depth = 8
iter = 6973, queue = 11399, heur = -8.0, depth = 8
iter = 6974, queue = 11400, heur = -8.0, depth = 8
iter = 6975, queue = 11399, heur = -8.0, depth = 8
iter = 6976, queue = 11402, heur = -8.0, depth = 8
iter = 6977, queue = 11403, heur = -8.0, depth = 8
iter = 6978, queue = 11406, heur = -8.0, depth = 8
iter = 6979, queue = 11407, heur = -8.0, depth = 8
iter = 6980, queue = 11410, heur = -8.0, depth = 8
iter = 6981, queue = 11413, heur = -8.0, depth = 8
iter = 6982, queue = 11412, heur = -8.0, depth = 8
iter = 6983, queue = 11413, heur = -8.0, depth = 8
iter = 6984, queue = 11414, heur = -8.0, depth = 8
iter = 6985, queue = 11415, heur = -8.0, depth = 8
iter = 6986, queue = 11414, heur = -8.0, depth = 8
iter = 6987, queue = 11415, heur = -8.0, depth = 8
iter = 6988, queue = 11416, heur = -8.0, depth = 8
iter = 6989, queue = 11416, heur = -8.0, depth = 9
iter = 6990, queue = 11417, heur = -8.0, depth = 8
iter = 6991, queue = 11418, heur = -8.0, depth = 8
iter = 6992, queue = 11418, heur = -8.0, depth = 8
iter = 6993, queue = 11418, heur = -8.0, depth = 8
iter = 6994, queue = 11421, heur = -8.0, depth = 8
iter = 6995, queue = 11423, heur = -8.0, depth = 8
iter = 6996, queue = 11423, heur = -8.0, depth = 8
iter = 6997, queue = 11424, heur = -8.0, depth = 8
iter = 6998, queue = 11425, heur = -8.0, depth = 8
iter = 6999, queue = 11425, heur = -8.0, depth = 8
iter = 7000, queue = 11428, heur = -8.0, depth = 8
iter = 7001, queue = 11429, heur = -8.0, depth = 8
iter = 7002, queue = 11432, heur = -8.0, depth = 8
iter = 7003, queue = 11433, heur = -8.0, depth = 8
iter = 7004, queue = 11434, heur = -8.0, depth = 8
iter = 7005, queue = 11434, heur = -8.0, depth = 8
iter = 7006, queue = 11435, heur = -8.0, depth = 8
iter = 7007, queue = 11436, heur = -8.0, depth = 8
iter = 7008, queue = 11437, heur = -8.0, depth = 8
iter = 7009, queue = 11438, heur = -8.0, depth = 8
iter = 7010, queue = 11437, heur = -8.0, depth = 8
iter = 7011, queue = 11440, heur = -8.0, depth = 8
iter = 7012, queue = 11441, heur = -8.0, depth = 8
iter = 7013, queue = 11442, heur = -8.0, depth = 8
iter = 7014, queue = 11443, heur = -8.0, depth = 8
iter = 7015, queue = 11444, heur = -8.0, depth = 8
iter = 7016, queue = 11447, heur = -8.0, depth = 8
iter = 7017, queue = 11449, heur = -8.0, depth = 8
iter = 7018, queue = 11449, heur = -8.0, depth = 8
iter = 7019, queue = 11450, heur = -8.0, depth = 8
```

```
iter = 7020, queue = 11451, heur = -8.0, depth = 8
iter = 7021, queue = 11452, heur = -8.0, depth = 8
iter = 7022, queue = 11455, heur = -8.0, depth = 8
iter = 7023, queue = 11457, heur = -8.0, depth = 9
iter = 7024, queue = 11460, heur = -8.0, depth = 8
iter = 7025, queue = 11463, heur = -8.0, depth = 8
iter = 7026, queue = 11466, heur = -8.0, depth = 8
iter = 7027, queue = 11467, heur = -8.0, depth = 8
iter = 7028, queue = 11467, heur = -8.0, depth = 8
iter = 7029, queue = 11468, heur = -8.0, depth = 8
iter = 7030, queue = 11469, heur = -8.0, depth = 9
iter = 7031, queue = 11471, heur = -8.0, depth = 8
iter = 7032, queue = 11470, heur = -8.0, depth = 8
iter = 7033, queue = 11473, heur = -8.0, depth = 8
iter = 7034, queue = 11475, heur = -8.0, depth = 8
iter = 7035, queue = 11476, heur = -8.0, depth = 8
iter = 7036, queue = 11479, heur = -8.0, depth = 8
iter = 7037, queue = 11482, heur = -8.0, depth = 8
iter = 7038, queue = 11483, heur = -8.0, depth = 8
iter = 7039, queue = 11482, heur = -8.0, depth = 8
iter = 7040, queue = 11482, heur = -8.0, depth = 8
iter = 7041, queue = 11481, heur = -8.0, depth = 8
iter = 7042, queue = 11483, heur = -8.0, depth = 8
iter = 7043, queue = 11484, heur = -8.0, depth = 8
iter = 7044, queue = 11487, heur = -8.0, depth = 8
iter = 7045, queue = 11490, heur = -8.0, depth = 8
iter = 7046, queue = 11490, heur = -8.0, depth = 8
iter = 7047, queue = 11489, heur = -8.0, depth = 8
iter = 7048, queue = 11492, heur = -8.0, depth = 8
iter = 7049, queue = 11493, heur = -8.0, depth = 8
iter = 7050, queue = 11493, heur = -8.0, depth = 8
iter = 7051, queue = 11492, heur = -8.0, depth = 8
iter = 7052, queue = 11495, heur = -8.0, depth = 8
iter = 7053, queue = 11496, heur = -8.0, depth = 8
iter = 7054, queue = 11495, heur = -8.0, depth = 8
iter = 7055, queue = 11496, heur = -8.0, depth = 8
iter = 7056, queue = 11496, heur = -8.0, depth = 8
iter = 7057, queue = 11497, heur = -8.0, depth = 8
iter = 7058, queue = 11496, heur = -8.0, depth = 8
iter = 7059, queue = 11499, heur = -8.0, depth = 8
iter = 7060, queue = 11499, heur = -8.0, depth = 8
iter = 7061, queue = 11500, heur = -8.0, depth = 8
iter = 7062, queue = 11501, heur = -8.0, depth = 8
iter = 7063, queue = 11501, heur = -8.0, depth = 8
iter = 7064, queue = 11501, heur = -8.0, depth = 8
iter = 7065, queue = 11503, heur = -8.0, depth = 8
iter = 7066, queue = 11504, heur = -8.0, depth = 8
iter = 7067, queue = 11505, heur = -8.0, depth = 8
iter = 7068, queue = 11506, heur = -8.0, depth = 8
iter = 7069, queue = 11507, heur = -8.0, depth = 8
iter = 7070, queue = 11508, heur = -8.0, depth = 8
iter = 7071, queue = 11509, heur = -8.0, depth = 8
iter = 7072, queue = 11512, heur = -8.0, depth = 8
iter = 7073, queue = 11513, heur = -8.0, depth = 8
iter = 7074, queue = 11514, heur = -8.0, depth = 8
iter = 7075, queue = 11515, heur = -8.0, depth = 8
iter = 7076, queue = 11515, heur = -8.0, depth = 8
iter = 7077, queue = 11517, heur = -8.0, depth = 8
iter = 7078, queue = 11519, heur = -8.0, depth = 8
```

```
iter = 7079, queue = 11521, heur = -8.0, depth = 8
iter = 7080, queue = 11522, heur = -8.0, depth = 8
iter = 7081, queue = 11525, heur = -8.0, depth = 8
iter = 7082, queue = 11526, heur = -8.0, depth = 8
iter = 7083, queue = 11527, heur = -8.0, depth = 9
iter = 7084, queue = 11527, heur = -8.0, depth = 8
iter = 7085, queue = 11528, heur = -8.0, depth = 8
iter = 7086, queue = 11531, heur = -8.0, depth = 8
iter = 7087, queue = 11533, heur = -8.0, depth = 8
iter = 7088, queue = 11536, heur = -8.0, depth = 8
iter = 7089, queue = 11539, heur = -8.0, depth = 8
iter = 7090, queue = 11541, heur = -8.0, depth = 8
iter = 7091, queue = 11543, heur = -8.0, depth = 8
iter = 7092, queue = 11545, heur = -8.0, depth = 8
iter = 7093, queue = 11546, heur = -8.0, depth = 8
iter = 7094, queue = 11548, heur = -8.0, depth = 8
iter = 7095, queue = 11551, heur = -8.0, depth = 8
iter = 7096, queue = 11552, heur = -8.0, depth = 8
iter = 7097, queue = 11555, heur = -8.0, depth = 8
iter = 7098, queue = 11558, heur = -8.0, depth = 8
iter = 7099, queue = 11558, heur = -8.0, depth = 8
iter = 7100, queue = 11561, heur = -8.0, depth = 8
iter = 7101, queue = 11561, heur = -8.0, depth = 8
iter = 7102, queue = 11564, heur = -8.0, depth = 8
iter = 7103, queue = 11567, heur = -8.0, depth = 8
iter = 7104, queue = 11568, heur = -8.0, depth = 8
iter = 7105, queue = 11570, heur = -8.0, depth = 8
iter = 7106, queue = 11571, heur = -8.0, depth = 8
iter = 7107, queue = 11572, heur = -8.0, depth = 8
iter = 7108, queue = 11573, heur = -8.0, depth = 8
iter = 7109, queue = 11576, heur = -8.0, depth = 8
iter = 7110, queue = 11577, heur = -8.0, depth = 8
iter = 7111, queue = 11578, heur = -8.0, depth = 8
iter = 7112, queue = 11579, heur = -8.0, depth = 8
iter = 7113, queue = 11582, heur = -8.0, depth = 8
iter = 7114, queue = 11583, heur = -8.0, depth = 8
iter = 7115, queue = 11584, heur = -8.0, depth = 8
iter = 7116, queue = 11585, heur = -8.0, depth = 8
iter = 7117, queue = 11586, heur = -8.0, depth = 8
iter = 7118, queue = 11589, heur = -8.0, depth = 8
iter = 7119, queue = 11590, heur = -8.0, depth = 8
iter = 7120, queue = 11591, heur = -8.0, depth = 8
iter = 7121, queue = 11593, heur = -8.0, depth = 8
iter = 7122, queue = 11594, heur = -8.0, depth = 9
iter = 7123, queue = 11595, heur = -8.0, depth = 8
iter = 7124, queue = 11596, heur = -8.0, depth = 8
iter = 7125, queue = 11597, heur = -8.0, depth = 8
iter = 7126, queue = 11599, heur = -8.0, depth = 8
iter = 7127, queue = 11601, heur = -8.0, depth = 8
iter = 7128, queue = 11603, heur = -8.0, depth = 8
iter = 7129, queue = 11604, heur = -8.0, depth = 8
iter = 7130, queue = 11607, heur = -8.0, depth = 8
iter = 7131, queue = 11607, heur = -8.0, depth = 8
iter = 7132, queue = 11607, heur = -8.0, depth = 8
iter = 7133, queue = 11608, heur = -8.0, depth = 8
iter = 7134, queue = 11609, heur = -8.0, depth = 8
iter = 7135, queue = 11612, heur = -8.0, depth = 8
iter = 7136, queue = 11613, heur = -8.0, depth = 8
iter = 7137, queue = 11614, heur = -8.0, depth = 8
```

```
iter = 7138, queue = 11615, heur = -8.0, depth = 8
iter = 7139, queue = 11616, heur = -8.0, depth = 8
iter = 7140, queue = 11619, heur = -8.0, depth = 8
iter = 7141, queue = 11621, heur = -8.0, depth = 8
iter = 7142, queue = 11622, heur = -8.0, depth = 8
iter = 7143, queue = 11624, heur = -8.0, depth = 9
iter = 7144, queue = 11627, heur = -8.0, depth = 8
iter = 7145, queue = 11630, heur = -8.0, depth = 8
iter = 7146, queue = 11633, heur = -8.0, depth = 8
iter = 7147, queue = 11634, heur = -8.0, depth = 8
iter = 7148, queue = 11637, heur = -8.0, depth = 8
iter = 7149, queue = 11640, heur = -8.0, depth = 8
iter = 7150, queue = 11639, heur = -8.0, depth = 8
iter = 7151, queue = 11640, heur = -8.0, depth = 8
iter = 7152, queue = 11643, heur = -8.0, depth = 8
iter = 7153, queue = 11643, heur = -8.0, depth = 8
iter = 7154, queue = 11642, heur = -8.0, depth = 8
iter = 7155, queue = 11644, heur = -8.0, depth = 8
iter = 7156, queue = 11647, heur = -8.0, depth = 8
iter = 7157, queue = 11648, heur = -8.0, depth = 8
iter = 7158, queue = 11649, heur = -8.0, depth = 8
iter = 7159, queue = 11652, heur = -8.0, depth = 8
iter = 7160, queue = 11655, heur = -8.0, depth = 8
iter = 7161, queue = 11656, heur = -8.0, depth = 8
iter = 7162, queue = 11655, heur = -8.0, depth = 9
iter = 7163, queue = 11654, heur = -8.0, depth = 9
iter = 7164, queue = 11657, heur = -8.0, depth = 8
iter = 7165, queue = 11659, heur = -8.0, depth = 8
iter = 7166, queue = 11660, heur = -8.0, depth = 8
iter = 7167, queue = 11662, heur = -8.0, depth = 8
iter = 7168, queue = 11663, heur = -8.0, depth = 8
iter = 7169, queue = 11664, heur = -8.0, depth = 8
iter = 7170, queue = 11665, heur = -8.0, depth = 8
iter = 7171, queue = 11666, heur = -8.0, depth = 8
iter = 7172, queue = 11669, heur = -8.0, depth = 8
iter = 7173, queue = 11670, heur = -8.0, depth = 8
iter = 7174, queue = 11673, heur = -8.0, depth = 8
iter = 7175, queue = 11674, heur = -8.0, depth = 8
iter = 7176, queue = 11674, heur = -8.0, depth = 8
iter = 7177, queue = 11676, heur = -8.0, depth = 8
iter = 7178, queue = 11677, heur = -8.0, depth = 8
iter = 7179, queue = 11680, heur = -8.0, depth = 8
iter = 7180, queue = 11679, heur = -8.0, depth = 8
iter = 7181, queue = 11682, heur = -8.0, depth = 8
iter = 7182, queue = 11684, heur = -8.0, depth = 8
iter = 7183, queue = 11685, heur = -8.0, depth = 8
iter = 7184, queue = 11686, heur = -8.0, depth = 8
iter = 7185, queue = 11689, heur = -8.0, depth = 8
iter = 7186, queue = 11690, heur = -8.0, depth = 8
iter = 7187, queue = 11691, heur = -8.0, depth = 8
iter = 7188, queue = 11692, heur = -8.0, depth = 8
iter = 7189, queue = 11691, heur = -8.0, depth = 8
iter = 7190, queue = 11694, heur = -8.0, depth = 8
iter = 7191, queue = 11697, heur = -8.0, depth = 8
iter = 7192, queue = 11696, heur = -8.0, depth = 8
iter = 7193, queue = 11695, heur = -8.0, depth = 8
iter = 7194, queue = 11696, heur = -8.0, depth = 8
iter = 7195, queue = 11695, heur = -8.0, depth = 8
iter = 7196, queue = 11696, heur = -8.0, depth = 8
```

```
iter = 7197, queue = 11695, heur = -8.0, depth = 8
iter = 7198, queue = 11696, heur = -8.0, depth = 8
iter = 7199, queue = 11697, heur = -8.0, depth = 8
iter = 7200, queue = 11696, heur = -8.0, depth = 8
iter = 7201, queue = 11697, heur = -8.0, depth = 9
iter = 7202, queue = 11697, heur = -8.0, depth = 8
iter = 7203, queue = 11698, heur = -8.0, depth = 9
iter = 7204, queue = 11700, heur = -8.0, depth = 8
iter = 7205, queue = 11701, heur = -8.0, depth = 8
iter = 7206, queue = 11704, heur = -8.0, depth = 8
iter = 7207, queue = 11705, heur = -8.0, depth = 8
iter = 7208, queue = 11708, heur = -8.0, depth = 8
iter = 7209, queue = 11709, heur = -8.0, depth = 8
iter = 7210, queue = 11709, heur = -8.0, depth = 8
iter = 7211, queue = 11712, heur = -8.0, depth = 8
iter = 7212, queue = 11713, heur = -8.0, depth = 8
iter = 7213, queue = 11714, heur = -8.0, depth = 8
iter = 7214, queue = 11715, heur = -8.0, depth = 8
iter = 7215, queue = 11714, heur = -8.0, depth = 8
iter = 7216, queue = 11715, heur = -8.0, depth = 8
iter = 7217, queue = 11716, heur = -8.0, depth = 8
iter = 7218, queue = 11719, heur = -8.0, depth = 8
iter = 7219, queue = 11718, heur = -8.0, depth = 8
iter = 7220, queue = 11717, heur = -8.0, depth = 8
iter = 7221, queue = 11717, heur = -8.0, depth = 8
iter = 7222, queue = 11717, heur = -8.0, depth = 8
iter = 7223, queue = 11718, heur = -8.0, depth = 8
iter = 7224, queue = 11720, heur = -8.0, depth = 8
iter = 7225, queue = 11722, heur = -8.0, depth = 8
iter = 7226, queue = 11721, heur = -8.0, depth = 8
iter = 7227, queue = 11724, heur = -8.0, depth = 8
iter = 7228, queue = 11725, heur = -8.0, depth = 8
iter = 7229, queue = 11724, heur = -8.0, depth = 8
iter = 7230, queue = 11725, heur = -8.0, depth = 8
iter = 7231, queue = 11726, heur = -8.0, depth = 8
iter = 7232, queue = 11727, heur = -8.0, depth = 8
iter = 7233, queue = 11730, heur = -8.0, depth = 8
iter = 7234, queue = 11729, heur = -8.0, depth = 8
iter = 7235, queue = 11730, heur = -8.0, depth = 9
iter = 7236, queue = 11733, heur = -8.0, depth = 8
iter = 7237, queue = 11734, heur = -8.0, depth = 8
iter = 7238, queue = 11735, heur = -8.0, depth = 8
iter = 7239, queue = 11737, heur = -8.0, depth = 8
iter = 7240, queue = 11738, heur = -8.0, depth = 8
iter = 7241, queue = 11740, heur = -8.0, depth = 10
iter = 7242, queue = 11743, heur = -8.0, depth = 8
iter = 7243, queue = 11745, heur = -8.0, depth = 8
iter = 7244, queue = 11748, heur = -8.0, depth = 8
iter = 7245, queue = 11749, heur = -8.0, depth = 8
iter = 7246, queue = 11749, heur = -8.0, depth = 8
iter = 7247, queue = 11752, heur = -8.0, depth = 8
iter = 7248, queue = 11752, heur = -8.0, depth = 8
iter = 7249, queue = 11752, heur = -8.0, depth = 9
iter = 7250, queue = 11753, heur = -8.0, depth = 8
iter = 7251, queue = 11754, heur = -8.0, depth = 8
iter = 7252, queue = 11757, heur = -8.0, depth = 8
iter = 7253, queue = 11758, heur = -8.0, depth = 8
iter = 7254, queue = 11757, heur = -8.0, depth = 8
iter = 7255, queue = 11759, heur = -8.0, depth = 8
```

```
iter = 7256, queue = 11759, heur = -8.0, depth = 8
iter = 7257, queue = 11760, heur = -8.0, depth = 8
iter = 7258, queue = 11761, heur = -8.0, depth = 8
iter = 7259, queue = 11764, heur = -8.0, depth = 8
iter = 7260, queue = 11763, heur = -8.0, depth = 8
iter = 7261, queue = 11766, heur = -8.0, depth = 8
iter = 7262, queue = 11768, heur = -8.0, depth = 8
iter = 7263, queue = 11767, heur = -8.0, depth = 8
iter = 7264, queue = 11769, heur = -8.0, depth = 8
iter = 7265, queue = 11769, heur = -8.0, depth = 8
iter = 7266, queue = 11770, heur = -8.0, depth = 9
iter = 7267, queue = 11771, heur = -8.0, depth = 8
iter = 7268, queue = 11772, heur = -8.0, depth = 8
iter = 7269, queue = 11771, heur = -8.0, depth = 8
iter = 7270, queue = 11771, heur = -8.0, depth = 8
iter = 7271, queue = 11772, heur = -8.0, depth = 8
iter = 7272, queue = 11775, heur = -8.0, depth = 8
iter = 7273, queue = 11775, heur = -8.0, depth = 8
iter = 7274, queue = 11776, heur = -8.0, depth = 8
iter = 7275, queue = 11777, heur = -8.0, depth = 8
iter = 7276, queue = 11776, heur = -8.0, depth = 8
iter = 7277, queue = 11779, heur = -8.0, depth = 8
iter = 7278, queue = 11780, heur = -8.0, depth = 8
iter = 7279, queue = 11783, heur = -8.0, depth = 8
iter = 7280, queue = 11786, heur = -8.0, depth = 8
iter = 7281, queue = 11787, heur = -8.0, depth = 8
iter = 7282, queue = 11787, heur = -8.0, depth = 8
iter = 7283, queue = 11788, heur = -8.0, depth = 8
iter = 7284, queue = 11788, heur = -8.0, depth = 8
iter = 7285, queue = 11789, heur = -8.0, depth = 8
iter = 7286, queue = 11790, heur = -8.0, depth = 8
iter = 7287, queue = 11791, heur = -8.0, depth = 8
iter = 7288, queue = 11793, heur = -8.0, depth = 8
iter = 7289, queue = 11794, heur = -8.0, depth = 8
iter = 7290, queue = 11795, heur = -8.0, depth = 8
iter = 7291, queue = 11796, heur = -8.0, depth = 8
iter = 7292, queue = 11798, heur = -8.0, depth = 8
iter = 7293, queue = 11797, heur = -8.0, depth = 8
iter = 7294, queue = 11800, heur = -8.0, depth = 8
iter = 7295, queue = 11802, heur = -8.0, depth = 8
iter = 7296, queue = 11801, heur = -8.0, depth = 8
iter = 7297, queue = 11804, heur = -8.0, depth = 8
iter = 7298, queue = 11807, heur = -8.0, depth = 8
iter = 7299, queue = 11808, heur = -8.0, depth = 8
iter = 7300, queue = 11808, heur = -8.0, depth = 8
iter = 7301, queue = 11808, heur = -8.0, depth = 8
iter = 7302, queue = 11809, heur = -8.0, depth = 8
iter = 7303, queue = 11810, heur = -8.0, depth = 8
iter = 7304, queue = 11812, heur = -8.0, depth = 8
iter = 7305, queue = 11815, heur = -8.0, depth = 8
iter = 7306, queue = 11818, heur = -8.0, depth = 8
iter = 7307, queue = 11819, heur = -8.0, depth = 8
iter = 7308, queue = 11822, heur = -8.0, depth = 8
iter = 7309, queue = 11823, heur = -8.0, depth = 8
iter = 7310, queue = 11825, heur = -8.0, depth = 8
iter = 7311, queue = 11826, heur = -8.0, depth = 8
iter = 7312, queue = 11829, heur = -8.0, depth = 8
iter = 7313, queue = 11831, heur = -8.0, depth = 9
iter = 7314, queue = 11833, heur = -8.0, depth = 8
```

```
iter = 7315, queue = 11834, heur = -8.0, depth = 8
iter = 7316, queue = 11834, heur = -8.0, depth = 8
iter = 7317, queue = 11835, heur = -8.0, depth = 8
iter = 7318, queue = 11838, heur = -8.0, depth = 8
iter = 7319, queue = 11839, heur = -8.0, depth = 8
iter = 7320, queue = 11840, heur = -8.0, depth = 8
iter = 7321, queue = 11841, heur = -8.0, depth = 8
iter = 7322, queue = 11844, heur = -8.0, depth = 8
iter = 7323, queue = 11845, heur = -8.0, depth = 8
iter = 7324, queue = 11846, heur = -8.0, depth = 8
iter = 7325, queue = 11849, heur = -8.0, depth = 8
iter = 7326, queue = 11850, heur = -8.0, depth = 8
iter = 7327, queue = 11853, heur = -8.0, depth = 8
iter = 7328, queue = 11854, heur = -8.0, depth = 8
iter = 7329, queue = 11855, heur = -8.0, depth = 8
iter = 7330, queue = 11855, heur = -8.0, depth = 8
iter = 7331, queue = 11854, heur = -8.0, depth = 8
iter = 7332, queue = 11857, heur = -8.0, depth = 8
iter = 7333, queue = 11858, heur = -8.0, depth = 9
iter = 7334, queue = 11861, heur = -8.0, depth = 8
iter = 7335, queue = 11862, heur = -8.0, depth = 8
iter = 7336, queue = 11863, heur = -8.0, depth = 8
iter = 7337, queue = 11866, heur = -8.0, depth = 8
iter = 7338, queue = 11867, heur = -8.0, depth = 8
iter = 7339, queue = 11868, heur = -8.0, depth = 8
iter = 7340, queue = 11869, heur = -8.0, depth = 8
iter = 7341, queue = 11872, heur = -8.0, depth = 8
iter = 7342, queue = 11873, heur = -8.0, depth = 8
iter = 7343, queue = 11874, heur = -8.0, depth = 8
iter = 7344, queue = 11875, heur = -8.0, depth = 8
iter = 7345, queue = 11877, heur = -8.0, depth = 8
iter = 7346, queue = 11878, heur = -8.0, depth = 8
iter = 7347, queue = 11880, heur = -8.0, depth = 8
iter = 7348, queue = 11882, heur = -8.0, depth = 9
iter = 7349, queue = 11882, heur = -8.0, depth = 8
iter = 7350, queue = 11883, heur = -8.0, depth = 8
iter = 7351, queue = 11884, heur = -8.0, depth = 8
iter = 7352, queue = 11887, heur = -8.0, depth = 8
iter = 7353, queue = 11890, heur = -8.0, depth = 8
iter = 7354, queue = 11893, heur = -8.0, depth = 8
iter = 7355, queue = 11894, heur = -8.0, depth = 9
iter = 7356, queue = 11897, heur = -8.0, depth = 8
iter = 7357, queue = 11898, heur = -8.0, depth = 8
iter = 7358, queue = 11900, heur = -8.0, depth = 9
iter = 7359, queue = 11899, heur = -8.0, depth = 8
iter = 7360, queue = 11900, heur = -8.0, depth = 8
iter = 7361, queue = 11902, heur = -8.0, depth = 8
iter = 7362, queue = 11903, heur = -8.0, depth = 8
iter = 7363, queue = 11906, heur = -8.0, depth = 8
iter = 7364, queue = 11909, heur = -8.0, depth = 8
iter = 7365, queue = 11911, heur = -8.0, depth = 8
iter = 7366, queue = 11912, heur = -8.0, depth = 8
iter = 7367, queue = 11912, heur = -8.0, depth = 8
iter = 7368, queue = 11915, heur = -8.0, depth = 8
iter = 7369, queue = 11915, heur = -8.0, depth = 9
iter = 7370, queue = 11916, heur = -8.0, depth = 8
iter = 7371, queue = 11917, heur = -8.0, depth = 8
iter = 7372, queue = 11917, heur = -8.0, depth = 9
iter = 7373, queue = 11920, heur = -8.0, depth = 8
```

```
iter = 7374, queue = 11922, heur = -8.0, depth = 8
iter = 7375, queue = 11925, heur = -8.0, depth = 8
iter = 7376, queue = 11927, heur = -8.0, depth = 8
iter = 7377, queue = 11928, heur = -8.0, depth = 8
iter = 7378, queue = 11928, heur = -8.0, depth = 8
iter = 7379, queue = 11928, heur = -8.0, depth = 8
iter = 7380, queue = 11931, heur = -8.0, depth = 8
iter = 7381, queue = 11932, heur = -8.0, depth = 8
iter = 7382, queue = 11933, heur = -8.0, depth = 8
iter = 7383, queue = 11936, heur = -8.0, depth = 8
iter = 7384, queue = 11935, heur = -8.0, depth = 8
iter = 7385, queue = 11938, heur = -8.0, depth = 8
iter = 7386, queue = 11941, heur = -8.0, depth = 8
iter = 7387, queue = 11940, heur = -8.0, depth = 8
iter = 7388, queue = 11942, heur = -8.0, depth = 8
iter = 7389, queue = 11943, heur = -8.0, depth = 8
iter = 7390, queue = 11944, heur = -8.0, depth = 8
iter = 7391, queue = 11945, heur = -8.0, depth = 8
iter = 7392, queue = 11946, heur = -8.0, depth = 8
iter = 7393, queue = 11949, heur = -8.0, depth = 9
iter = 7394, queue = 11950, heur = -8.0, depth = 8
iter = 7395, queue = 11950, heur = -8.0, depth = 8
iter = 7396, queue = 11952, heur = -8.0, depth = 8
iter = 7397, queue = 11953, heur = -8.0, depth = 8
iter = 7398, queue = 11954, heur = -8.0, depth = 8
iter = 7399, queue = 11955, heur = -8.0, depth = 8
iter = 7400, queue = 11957, heur = -8.0, depth = 8
iter = 7401, queue = 11959, heur = -8.0, depth = 9
iter = 7402, queue = 11960, heur = -8.0, depth = 8
iter = 7403, queue = 11963, heur = -8.0, depth = 8
iter = 7404, queue = 11964, heur = -8.0, depth = 8
iter = 7405, queue = 11965, heur = -8.0, depth = 8
iter = 7406, queue = 11965, heur = -8.0, depth = 8
iter = 7407, queue = 11966, heur = -8.0, depth = 8
iter = 7408, queue = 11967, heur = -8.0, depth = 9
iter = 7409, queue = 11967, heur = -8.0, depth = 8
iter = 7410, queue = 11968, heur = -8.0, depth = 8
iter = 7411, queue = 11969, heur = -8.0, depth = 10
iter = 7412, queue = 11970, heur = -8.0, depth = 9
iter = 7413, queue = 11973, heur = -8.0, depth = 8
iter = 7414, queue = 11976, heur = -8.0, depth = 9
iter = 7415, queue = 11977, heur = -8.0, depth = 9
iter = 7416, queue = 11978, heur = -8.0, depth = 8
iter = 7417, queue = 11979, heur = -8.0, depth = 8
iter = 7418, queue = 11978, heur = -8.0, depth = 8
iter = 7419, queue = 11981, heur = -8.0, depth = 8
iter = 7420, queue = 11984, heur = -8.0, depth = 8
iter = 7421, queue = 11985, heur = -8.0, depth = 8
iter = 7422, queue = 11985, heur = -8.0, depth = 8
iter = 7423, queue = 11987, heur = -8.0, depth = 8
iter = 7424, queue = 11990, heur = -8.0, depth = 8
iter = 7425, queue = 11992, heur = -8.0, depth = 8
iter = 7426, queue = 11995, heur = -8.0, depth = 8
iter = 7427, queue = 11996, heur = -8.0, depth = 8
iter = 7428, queue = 11997, heur = -8.0, depth = 8
iter = 7429, queue = 11998, heur = -8.0, depth = 8
iter = 7430, queue = 11999, heur = -8.0, depth = 9
iter = 7431, queue = 12002, heur = -8.0, depth = 8
iter = 7432, queue = 12002, heur = -8.0, depth = 8
```

```
iter = 7433, queue = 12003, heur = -8.0, depth = 8
iter = 7434, queue = 12004, heur = -8.0, depth = 8
iter = 7435, queue = 12004, heur = -8.0, depth = 8
iter = 7436, queue = 12005, heur = -8.0, depth = 8
iter = 7437, queue = 12006, heur = -8.0, depth = 8
iter = 7438, queue = 12007, heur = -8.0, depth = 8
iter = 7439, queue = 12010, heur = -8.0, depth = 8
iter = 7440, queue = 12012, heur = -8.0, depth = 8
iter = 7441, queue = 12013, heur = -8.0, depth = 8
iter = 7442, queue = 12014, heur = -8.0, depth = 8
iter = 7443, queue = 12015, heur = -8.0, depth = 8
iter = 7444, queue = 12015, heur = -8.0, depth = 8
iter = 7445, queue = 12016, heur = -8.0, depth = 8
iter = 7446, queue = 12019, heur = -8.0, depth = 8
iter = 7447, queue = 12020, heur = -8.0, depth = 8
iter = 7448, queue = 12021, heur = -8.0, depth = 8
iter = 7449, queue = 12022, heur = -8.0, depth = 8
iter = 7450, queue = 12025, heur = -8.0, depth = 9
iter = 7451, queue = 12028, heur = -8.0, depth = 8
iter = 7452, queue = 12029, heur = -8.0, depth = 8
iter = 7453, queue = 12031, heur = -8.0, depth = 8
iter = 7454, queue = 12034, heur = -8.0, depth = 8
iter = 7455, queue = 12037, heur = -8.0, depth = 8
iter = 7456, queue = 12040, heur = -8.0, depth = 8
iter = 7457, queue = 12040, heur = -8.0, depth = 8
iter = 7458, queue = 12041, heur = -8.0, depth = 8
iter = 7459, queue = 12044, heur = -8.0, depth = 8
iter = 7460, queue = 12044, heur = -8.0, depth = 8
iter = 7461, queue = 12045, heur = -8.0, depth = 8
iter = 7462, queue = 12046, heur = -8.0, depth = 8
iter = 7463, queue = 12049, heur = -8.0, depth = 8
iter = 7464, queue = 12052, heur = -8.0, depth = 8
iter = 7465, queue = 12054, heur = -8.0, depth = 8
iter = 7466, queue = 12057, heur = -8.0, depth = 8
iter = 7467, queue = 12058, heur = -8.0, depth = 8
iter = 7468, queue = 12059, heur = -8.0, depth = 9
iter = 7469, queue = 12061, heur = -8.0, depth = 8
iter = 7470, queue = 12063, heur = -8.0, depth = 8
iter = 7471, queue = 12065, heur = -8.0, depth = 9
iter = 7472, queue = 12066, heur = -8.0, depth = 9
iter = 7473, queue = 12067, heur = -8.0, depth = 8
iter = 7474, queue = 12070, heur = -8.0, depth = 9
iter = 7475, queue = 12071, heur = -8.0, depth = 8
iter = 7476, queue = 12074, heur = -8.0, depth = 8
iter = 7477, queue = 12077, heur = -8.0, depth = 8
iter = 7478, queue = 12078, heur = -8.0, depth = 8
iter = 7479, queue = 12079, heur = -8.0, depth = 8
iter = 7480, queue = 12080, heur = -8.0, depth = 8
iter = 7481, queue = 12081, heur = -8.0, depth = 8
iter = 7482, queue = 12082, heur = -8.0, depth = 8
iter = 7483, queue = 12085, heur = -8.0, depth = 8
iter = 7484, queue = 12088, heur = -8.0, depth = 8
iter = 7485, queue = 12089, heur = -8.0, depth = 8
iter = 7486, queue = 12089, heur = -8.0, depth = 8
iter = 7487, queue = 12089, heur = -8.0, depth = 8
iter = 7488, queue = 12089, heur = -8.0, depth = 8
iter = 7489, queue = 12089, heur = -8.0, depth = 8
iter = 7490, queue = 12091, heur = -8.0, depth = 8
iter = 7491, queue = 12094, heur = -8.0, depth = 8
```

```
iter = 7492, queue = 12095, heur = -8.0, depth = 8
iter = 7493, queue = 12096, heur = -8.0, depth = 8
iter = 7494, queue = 12099, heur = -8.0, depth = 8
iter = 7495, queue = 12102, heur = -8.0, depth = 8
iter = 7496, queue = 12103, heur = -8.0, depth = 8
iter = 7497, queue = 12104, heur = -8.0, depth = 8
iter = 7498, queue = 12106, heur = -8.0, depth = 8
iter = 7499, queue = 12105, heur = -8.0, depth = 8
iter = 7500, queue = 12108, heur = -8.0, depth = 9
iter = 7501, queue = 12111, heur = -8.0, depth = 8
iter = 7502, queue = 12111, heur = -8.0, depth = 10
iter = 7503, queue = 12114, heur = -8.0, depth = 10
iter = 7504, queue = 12117, heur = -8.0, depth = 10
iter = 7505, queue = 12120, heur = -8.0, depth = 8
iter = 7506, queue = 12121, heur = -8.0, depth = 10
iter = 7507, queue = 12124, heur = -8.0, depth = 8
iter = 7508, queue = 12125, heur = -8.0, depth = 11
iter = 7509, queue = 12128, heur = -8.0, depth = 8
iter = 7510, queue = 12129, heur = -8.0, depth = 8
iter = 7511, queue = 12130, heur = -8.0, depth = 8
iter = 7512, queue = 12130, heur = -8.0, depth = 12
iter = 7513, queue = 12133, heur = -8.0, depth = 8
iter = 7514, queue = 12134, heur = -8.0, depth = 8
iter = 7515, queue = 12135, heur = -8.0, depth = 9
iter = 7516, queue = 12138, heur = -8.0, depth = 8
iter = 7517, queue = 12139, heur = -8.0, depth = 9
iter = 7518, queue = 12142, heur = -8.0, depth = 8
iter = 7519, queue = 12144, heur = -8.0, depth = 8
iter = 7520, queue = 12146, heur = -8.0, depth = 8
iter = 7521, queue = 12148, heur = -8.0, depth = 8
iter = 7522, queue = 12149, heur = -8.0, depth = 8
iter = 7523, queue = 12150, heur = -8.0, depth = 8
iter = 7524, queue = 12153, heur = -8.0, depth = 8
iter = 7525, queue = 12155, heur = -8.0, depth = 8
iter = 7526, queue = 12156, heur = -8.0, depth = 8
iter = 7527, queue = 12155, heur = -8.0, depth = 8
iter = 7528, queue = 12157, heur = -8.0, depth = 8
iter = 7529, queue = 12156, heur = -8.0, depth = 8
iter = 7530, queue = 12159, heur = -8.0, depth = 8
iter = 7531, queue = 12161, heur = -8.0, depth = 8
iter = 7532, queue = 12164, heur = -8.0, depth = 8
iter = 7533, queue = 12167, heur = -8.0, depth = 8
iter = 7534, queue = 12170, heur = -8.0, depth = 8
iter = 7535, queue = 12171, heur = -8.0, depth = 8
iter = 7536, queue = 12172, heur = -8.0, depth = 8
iter = 7537, queue = 12173, heur = -8.0, depth = 10
iter = 7538, queue = 12174, heur = -8.0, depth = 8
iter = 7539, queue = 12175, heur = -8.0, depth = 10
iter = 7540, queue = 12176, heur = -8.0, depth = 8
iter = 7541, queue = 12179, heur = -8.0, depth = 8
iter = 7542, queue = 12178, heur = -8.0, depth = 8
iter = 7543, queue = 12179, heur = -8.0, depth = 8
iter = 7544, queue = 12182, heur = -8.0, depth = 8
iter = 7545, queue = 12185, heur = -8.0, depth = 8
iter = 7546, queue = 12188, heur = -8.0, depth = 8
iter = 7547, queue = 12190, heur = -8.0, depth = 8
iter = 7548, queue = 12191, heur = -8.0, depth = 8
iter = 7549, queue = 12192, heur = -8.0, depth = 8
iter = 7550, queue = 12192, heur = -8.0, depth = 8
```

```
iter = 7551, queue = 12195, heur = -8.0, depth = 8
iter = 7552, queue = 12198, heur = -8.0, depth = 8
iter = 7553, queue = 12198, heur = -8.0, depth = 8
iter = 7554, queue = 12199, heur = -8.0, depth = 8
iter = 7555, queue = 12201, heur = -8.0, depth = 10
iter = 7556, queue = 12202, heur = -8.0, depth = 8
iter = 7557, queue = 12205, heur = -8.0, depth = 8
iter = 7558, queue = 12205, heur = -8.0, depth = 8
iter = 7559, queue = 12206, heur = -8.0, depth = 8
iter = 7560, queue = 12208, heur = -8.0, depth = 10
iter = 7561, queue = 12209, heur = -8.0, depth = 10
iter = 7562, queue = 12212, heur = -8.0, depth = 8
iter = 7563, queue = 12212, heur = -8.0, depth = 10
iter = 7564, queue = 12215, heur = -8.0, depth = 8
iter = 7565, queue = 12216, heur = -8.0, depth = 8
iter = 7566, queue = 12217, heur = -8.0, depth = 8
iter = 7567, queue = 12218, heur = -8.0, depth = 8
iter = 7568, queue = 12219, heur = -8.0, depth = 8
iter = 7569, queue = 12218, heur = -8.0, depth = 8
iter = 7570, queue = 12218, heur = -8.0, depth = 8
iter = 7571, queue = 12220, heur = -8.0, depth = 8
iter = 7572, queue = 12223, heur = -8.0, depth = 8
iter = 7573, queue = 12226, heur = -8.0, depth = 8
iter = 7574, queue = 12229, heur = -8.0, depth = 8
iter = 7575, queue = 12230, heur = -8.0, depth = 8
iter = 7576, queue = 12233, heur = -8.0, depth = 8
iter = 7577, queue = 12236, heur = -8.0, depth = 8
iter = 7578, queue = 12239, heur = -8.0, depth = 8
iter = 7579, queue = 12240, heur = -8.0, depth = 8
iter = 7580, queue = 12241, heur = -8.0, depth = 8
iter = 7581, queue = 12241, heur = -8.0, depth = 8
iter = 7582, queue = 12240, heur = -8.0, depth = 8
iter = 7583, queue = 12239, heur = -8.0, depth = 8
iter = 7584, queue = 12242, heur = -8.0, depth = 8
iter = 7585, queue = 12243, heur = -8.0, depth = 8
iter = 7586, queue = 12246, heur = -8.0, depth = 8
iter = 7587, queue = 12247, heur = -8.0, depth = 8
iter = 7588, queue = 12249, heur = -8.0, depth = 8
iter = 7589, queue = 12252, heur = -8.0, depth = 8
iter = 7590, queue = 12252, heur = -8.0, depth = 8
iter = 7591, queue = 12255, heur = -8.0, depth = 8
iter = 7592, queue = 12258, heur = -8.0, depth = 8
iter = 7593, queue = 12259, heur = -8.0, depth = 8
iter = 7594, queue = 12260, heur = -8.0, depth = 8
iter = 7595, queue = 12263, heur = -8.0, depth = 8
iter = 7596, queue = 12264, heur = -8.0, depth = 8
iter = 7597, queue = 12265, heur = -8.0, depth = 8
iter = 7598, queue = 12266, heur = -8.0, depth = 8
iter = 7599, queue = 12267, heur = -8.0, depth = 9
iter = 7600, queue = 12270, heur = -8.0, depth = 8
iter = 7601, queue = 12270, heur = -8.0, depth = 8
iter = 7602, queue = 12271, heur = -8.0, depth = 8
iter = 7603, queue = 12272, heur = -8.0, depth = 8
iter = 7604, queue = 12274, heur = -8.0, depth = 8
iter = 7605, queue = 12277, heur = -8.0, depth = 8
iter = 7606, queue = 12278, heur = -8.0, depth = 8
iter = 7607, queue = 12279, heur = -8.0, depth = 8
iter = 7608, queue = 12278, heur = -8.0, depth = 8
iter = 7609, queue = 12281, heur = -8.0, depth = 8
```

```
iter = 7610, queue = 12282, heur = -8.0, depth = 8
iter = 7611, queue = 12284, heur = -8.0, depth = 8
iter = 7612, queue = 12287, heur = -8.0, depth = 8
iter = 7613, queue = 12286, heur = -8.0, depth = 8
iter = 7614, queue = 12289, heur = -8.0, depth = 8
iter = 7615, queue = 12292, heur = -8.0, depth = 8
iter = 7616, queue = 12294, heur = -8.0, depth = 8
iter = 7617, queue = 12297, heur = -8.0, depth = 8
iter = 7618, queue = 12297, heur = -8.0, depth = 8
iter = 7619, queue = 12300, heur = -8.0, depth = 8
iter = 7620, queue = 12303, heur = -8.0, depth = 8
iter = 7621, queue = 12306, heur = -8.0, depth = 8
iter = 7622, queue = 12309, heur = -8.0, depth = 8
iter = 7623, queue = 12308, heur = -8.0, depth = 8
iter = 7624, queue = 12309, heur = -8.0, depth = 8
iter = 7625, queue = 12312, heur = -8.0, depth = 8
iter = 7626, queue = 12313, heur = -8.0, depth = 8
iter = 7627, queue = 12316, heur = -8.0, depth = 8
iter = 7628, queue = 12317, heur = -8.0, depth = 8
iter = 7629, queue = 12316, heur = -8.0, depth = 8
iter = 7630, queue = 12318, heur = -8.0, depth = 8
iter = 7631, queue = 12319, heur = -8.0, depth = 8
iter = 7632, queue = 12319, heur = -8.0, depth = 8
iter = 7633, queue = 12322, heur = -8.0, depth = 8
iter = 7634, queue = 12322, heur = -8.0, depth = 9
iter = 7635, queue = 12325, heur = -8.0, depth = 8
iter = 7636, queue = 12328, heur = -8.0, depth = 8
iter = 7637, queue = 12329, heur = -8.0, depth = 8
iter = 7638, queue = 12330, heur = -8.0, depth = 8
iter = 7639, queue = 12333, heur = -8.0, depth = 9
iter = 7640, queue = 12336, heur = -8.0, depth = 8
iter = 7641, queue = 12337, heur = -8.0, depth = 8
iter = 7642, queue = 12337, heur = -8.0, depth = 8
iter = 7643, queue = 12340, heur = -8.0, depth = 8
iter = 7644, queue = 12341, heur = -8.0, depth = 8
iter = 7645, queue = 12342, heur = -8.0, depth = 8
iter = 7646, queue = 12341, heur = -8.0, depth = 8
iter = 7647, queue = 12341, heur = -8.0, depth = 8
iter = 7648, queue = 12341, heur = -8.0, depth = 8
iter = 7649, queue = 12344, heur = -8.0, depth = 8
iter = 7650, queue = 12345, heur = -8.0, depth = 8
iter = 7651, queue = 12348, heur = -8.0, depth = 8
iter = 7652, queue = 12349, heur = -8.0, depth = 8
iter = 7653, queue = 12348, heur = -8.0, depth = 8
iter = 7654, queue = 12350, heur = -8.0, depth = 8
iter = 7655, queue = 12353, heur = -8.0, depth = 8
iter = 7656, queue = 12356, heur = -8.0, depth = 8
iter = 7657, queue = 12357, heur = -8.0, depth = 8
iter = 7658, queue = 12358, heur = -8.0, depth = 8
iter = 7659, queue = 12361, heur = -8.0, depth = 8
iter = 7660, queue = 12361, heur = -8.0, depth = 8
iter = 7661, queue = 12362, heur = -8.0, depth = 8
iter = 7662, queue = 12363, heur = -8.0, depth = 8
iter = 7663, queue = 12366, heur = -8.0, depth = 8
iter = 7664, queue = 12367, heur = -8.0, depth = 8
iter = 7665, queue = 12368, heur = -8.0, depth = 8
iter = 7666, queue = 12371, heur = -8.0, depth = 8
iter = 7667, queue = 12374, heur = -8.0, depth = 8
iter = 7668, queue = 12375, heur = -8.0, depth = 8
```

```
iter = 7669, queue = 12376, heur = -8.0, depth = 8
iter = 7670, queue = 12377, heur = -8.0, depth = 8
iter = 7671, queue = 12379, heur = -8.0, depth = 8
iter = 7672, queue = 12382, heur = -8.0, depth = 8
iter = 7673, queue = 12385, heur = -8.0, depth = 8
iter = 7674, queue = 12386, heur = -8.0, depth = 8
iter = 7675, queue = 12389, heur = -8.0, depth = 8
iter = 7676, queue = 12390, heur = -8.0, depth = 8
iter = 7677, queue = 12391, heur = -8.0, depth = 8
iter = 7678, queue = 12392, heur = -8.0, depth = 8
iter = 7679, queue = 12393, heur = -8.0, depth = 8
iter = 7680, queue = 12394, heur = -8.0, depth = 8
iter = 7681, queue = 12395, heur = -8.0, depth = 8
iter = 7682, queue = 12396, heur = -8.0, depth = 8
iter = 7683, queue = 12397, heur = -8.0, depth = 8
iter = 7684, queue = 12399, heur = -8.0, depth = 8
iter = 7685, queue = 12399, heur = -8.0, depth = 8
iter = 7686, queue = 12400, heur = -8.0, depth = 8
iter = 7687, queue = 12399, heur = -8.0, depth = 8
iter = 7688, queue = 12402, heur = -8.0, depth = 8
iter = 7689, queue = 12403, heur = -8.0, depth = 8
iter = 7690, queue = 12404, heur = -8.0, depth = 8
iter = 7691, queue = 12405, heur = -8.0, depth = 8
iter = 7692, queue = 12406, heur = -8.0, depth = 9
iter = 7693, queue = 12409, heur = -8.0, depth = 8
iter = 7694, queue = 12410, heur = -8.0, depth = 8
iter = 7695, queue = 12410, heur = -8.0, depth = 8
iter = 7696, queue = 12410, heur = -8.0, depth = 9
iter = 7697, queue = 12411, heur = -8.0, depth = 10
iter = 7698, queue = 12414, heur = -8.0, depth = 9
iter = 7699, queue = 12416, heur = -8.0, depth = 8
iter = 7700, queue = 12416, heur = -8.0, depth = 8
iter = 7701, queue = 12416, heur = -8.0, depth = 8
iter = 7702, queue = 12418, heur = -8.0, depth = 8
iter = 7703, queue = 12419, heur = -8.0, depth = 8
iter = 7704, queue = 12420, heur = -8.0, depth = 8
iter = 7705, queue = 12423, heur = -8.0, depth = 8
iter = 7706, queue = 12424, heur = -8.0, depth = 8
iter = 7707, queue = 12425, heur = -8.0, depth = 8
iter = 7708, queue = 12426, heur = -8.0, depth = 8
iter = 7709, queue = 12427, heur = -8.0, depth = 8
iter = 7710, queue = 12429, heur = -8.0, depth = 8
iter = 7711, queue = 12432, heur = -8.0, depth = 8
iter = 7712, queue = 12433, heur = -8.0, depth = 8
iter = 7713, queue = 12432, heur = -8.0, depth = 8
iter = 7714, queue = 12433, heur = -8.0, depth = 8
iter = 7715, queue = 12435, heur = -8.0, depth = 8
iter = 7716, queue = 12436, heur = -8.0, depth = 8
iter = 7717, queue = 12437, heur = -8.0, depth = 8
iter = 7718, queue = 12440, heur = -8.0, depth = 8
iter = 7719, queue = 12442, heur = -8.0, depth = 8
iter = 7720, queue = 12441, heur = -8.0, depth = 8
iter = 7721, queue = 12442, heur = -8.0, depth = 8
iter = 7722, queue = 12443, heur = -8.0, depth = 8
iter = 7723, queue = 12444, heur = -8.0, depth = 8
iter = 7724, queue = 12445, heur = -8.0, depth = 8
iter = 7725, queue = 12446, heur = -8.0, depth = 8
iter = 7726, queue = 12447, heur = -8.0, depth = 8
iter = 7727, queue = 12450, heur = -8.0, depth = 8
```

```
iter = 7728, queue = 12451, heur = -8.0, depth = 8
iter = 7729, queue = 12453, heur = -8.0, depth = 8
iter = 7730, queue = 12454, heur = -8.0, depth = 8
iter = 7731, queue = 12454, heur = -8.0, depth = 8
iter = 7732, queue = 12456, heur = -8.0, depth = 9
iter = 7733, queue = 12457, heur = -8.0, depth = 8
iter = 7734, queue = 12460, heur = -8.0, depth = 8
iter = 7735, queue = 12460, heur = -8.0, depth = 8
iter = 7736, queue = 12462, heur = -8.0, depth = 8
iter = 7737, queue = 12463, heur = -8.0, depth = 8
iter = 7738, queue = 12464, heur = -8.0, depth = 8
iter = 7739, queue = 12465, heur = -8.0, depth = 8
iter = 7740, queue = 12466, heur = -8.0, depth = 8
iter = 7741, queue = 12468, heur = -8.0, depth = 8
iter = 7742, queue = 12469, heur = -8.0, depth = 8
iter = 7743, queue = 12470, heur = -8.0, depth = 8
iter = 7744, queue = 12469, heur = -8.0, depth = 8
iter = 7745, queue = 12469, heur = -8.0, depth = 8
iter = 7746, queue = 12470, heur = -8.0, depth = 8
iter = 7747, queue = 12473, heur = -8.0, depth = 8
iter = 7748, queue = 12473, heur = -8.0, depth = 8
iter = 7749, queue = 12474, heur = -8.0, depth = 8
iter = 7750, queue = 12477, heur = -8.0, depth = 8
iter = 7751, queue = 12478, heur = -8.0, depth = 8
iter = 7752, queue = 12479, heur = -8.0, depth = 8
iter = 7753, queue = 12480, heur = -8.0, depth = 9
iter = 7754, queue = 12483, heur = -8.0, depth = 9
iter = 7755, queue = 12484, heur = -8.0, depth = 8
iter = 7756, queue = 12484, heur = -8.0, depth = 9
iter = 7757, queue = 12485, heur = -8.0, depth = 8
iter = 7758, queue = 12485, heur = -8.0, depth = 8
iter = 7759, queue = 12486, heur = -8.0, depth = 8
iter = 7760, queue = 12487, heur = -8.0, depth = 8
iter = 7761, queue = 12488, heur = -8.0, depth = 8
iter = 7762, queue = 12489, heur = -8.0, depth = 8
iter = 7763, queue = 12490, heur = -8.0, depth = 8
iter = 7764, queue = 12491, heur = -8.0, depth = 8
iter = 7765, queue = 12494, heur = -8.0, depth = 9
iter = 7766, queue = 12493, heur = -8.0, depth = 8
iter = 7767, queue = 12496, heur = -8.0, depth = 8
iter = 7768, queue = 12497, heur = -8.0, depth = 8
iter = 7769, queue = 12500, heur = -8.0, depth = 9
iter = 7770, queue = 12499, heur = -8.0, depth = 8
iter = 7771, queue = 12500, heur = -8.0, depth = 8
iter = 7772, queue = 12501, heur = -8.0, depth = 8
iter = 7773, queue = 12502, heur = -8.0, depth = 8
iter = 7774, queue = 12505, heur = -8.0, depth = 8
iter = 7775, queue = 12506, heur = -8.0, depth = 8
iter = 7776, queue = 12507, heur = -8.0, depth = 8
iter = 7777, queue = 12508, heur = -8.0, depth = 8
iter = 7778, queue = 12509, heur = -8.0, depth = 8
iter = 7779, queue = 12509, heur = -8.0, depth = 8
iter = 7780, queue = 12510, heur = -8.0, depth = 9
iter = 7781, queue = 12509, heur = -8.0, depth = 8
iter = 7782, queue = 12511, heur = -8.0, depth = 8
iter = 7783, queue = 12510, heur = -8.0, depth = 8
iter = 7784, queue = 12511, heur = -8.0, depth = 8
iter = 7785, queue = 12512, heur = -8.0, depth = 8
iter = 7786, queue = 12511, heur = -8.0, depth = 8
```

```
iter = 7787, queue = 12510, heur = -8.0, depth = 8
iter = 7788, queue = 12511, heur = -8.0, depth = 9
iter = 7789, queue = 12510, heur = -8.0, depth = 8
iter = 7790, queue = 12510, heur = -8.0, depth = 8
iter = 7791, queue = 12510, heur = -8.0, depth = 8
iter = 7792, queue = 12511, heur = -8.0, depth = 8
iter = 7793, queue = 12513, heur = -8.0, depth = 8
iter = 7794, queue = 12512, heur = -8.0, depth = 8
iter = 7795, queue = 12513, heur = -8.0, depth = 8
iter = 7796, queue = 12515, heur = -8.0, depth = 8
iter = 7797, queue = 12516, heur = -8.0, depth = 8
iter = 7798, queue = 12517, heur = -8.0, depth = 8
iter = 7799, queue = 12517, heur = -8.0, depth = 8
iter = 7800, queue = 12518, heur = -8.0, depth = 8
iter = 7801, queue = 12517, heur = -8.0, depth = 8
iter = 7802, queue = 12516, heur = -8.0, depth = 8
iter = 7803, queue = 12517, heur = -8.0, depth = 8
iter = 7804, queue = 12518, heur = -8.0, depth = 8
iter = 7805, queue = 12521, heur = -8.0, depth = 8
iter = 7806, queue = 12524, heur = -8.0, depth = 8
iter = 7807, queue = 12527, heur = -8.0, depth = 8
iter = 7808, queue = 12529, heur = -8.0, depth = 8
iter = 7809, queue = 12528, heur = -8.0, depth = 8
iter = 7810, queue = 12530, heur = -8.0, depth = 9
iter = 7811, queue = 12530, heur = -8.0, depth = 8
iter = 7812, queue = 12533, heur = -8.0, depth = 8
iter = 7813, queue = 12534, heur = -8.0, depth = 8
iter = 7814, queue = 12535, heur = -8.0, depth = 8
iter = 7815, queue = 12536, heur = -8.0, depth = 8
iter = 7816, queue = 12536, heur = -8.0, depth = 8
iter = 7817, queue = 12538, heur = -8.0, depth = 8
iter = 7818, queue = 12540, heur = -8.0, depth = 8
iter = 7819, queue = 12541, heur = -8.0, depth = 9
iter = 7820, queue = 12542, heur = -8.0, depth = 8
iter = 7821, queue = 12545, heur = -8.0, depth = 8
iter = 7822, queue = 12546, heur = -8.0, depth = 8
iter = 7823, queue = 12547, heur = -8.0, depth = 8
iter = 7824, queue = 12548, heur = -8.0, depth = 8
iter = 7825, queue = 12549, heur = -8.0, depth = 8
iter = 7826, queue = 12552, heur = -8.0, depth = 8
iter = 7827, queue = 12555, heur = -8.0, depth = 8
iter = 7828, queue = 12556, heur = -8.0, depth = 8
iter = 7829, queue = 12557, heur = -8.0, depth = 9
iter = 7830, queue = 12558, heur = -8.0, depth = 9
iter = 7831, queue = 12561, heur = -8.0, depth = 8
iter = 7832, queue = 12564, heur = -8.0, depth = 8
iter = 7833, queue = 12565, heur = -8.0, depth = 9
iter = 7834, queue = 12566, heur = -8.0, depth = 8
iter = 7835, queue = 12567, heur = -8.0, depth = 8
iter = 7836, queue = 12566, heur = -8.0, depth = 9
iter = 7837, queue = 12565, heur = -8.0, depth = 9
iter = 7838, queue = 12566, heur = -8.0, depth = 8
iter = 7839, queue = 12567, heur = -8.0, depth = 8
iter = 7840, queue = 12568, heur = -8.0, depth = 8
iter = 7841, queue = 12568, heur = -8.0, depth = 9
iter = 7842, queue = 12569, heur = -8.0, depth = 8
iter = 7843, queue = 12571, heur = -8.0, depth = 8
iter = 7844, queue = 12572, heur = -8.0, depth = 8
iter = 7845, queue = 12573, heur = -8.0, depth = 8
```

```
iter = 7846, queue = 12573, heur = -8.0, depth = 8
iter = 7847, queue = 12573, heur = -8.0, depth = 8
iter = 7848, queue = 12572, heur = -8.0, depth = 8
iter = 7849, queue = 12573, heur = -8.0, depth = 8
iter = 7850, queue = 12573, heur = -8.0, depth = 8
iter = 7851, queue = 12575, heur = -8.0, depth = 8
iter = 7852, queue = 12578, heur = -8.0, depth = 8
iter = 7853, queue = 12580, heur = -8.0, depth = 8
iter = 7854, queue = 12582, heur = -8.0, depth = 8
iter = 7855, queue = 12583, heur = -8.0, depth = 8
iter = 7856, queue = 12584, heur = -8.0, depth = 9
iter = 7857, queue = 12585, heur = -8.0, depth = 9
iter = 7858, queue = 12588, heur = -8.0, depth = 9
iter = 7859, queue = 12591, heur = -8.0, depth = 8
iter = 7860, queue = 12592, heur = -8.0, depth = 8
iter = 7861, queue = 12593, heur = -8.0, depth = 8
iter = 7862, queue = 12594, heur = -8.0, depth = 8
iter = 7863, queue = 12593, heur = -8.0, depth = 8
iter = 7864, queue = 12594, heur = -8.0, depth = 9
iter = 7865, queue = 12597, heur = -8.0, depth = 8
iter = 7866, queue = 12598, heur = -8.0, depth = 8
iter = 7867, queue = 12597, heur = -8.0, depth = 8
iter = 7868, queue = 12597, heur = -8.0, depth = 9
iter = 7869, queue = 12599, heur = -8.0, depth = 8
iter = 7870, queue = 12602, heur = -8.0, depth = 8
iter = 7871, queue = 12605, heur = -8.0, depth = 9
iter = 7872, queue = 12607, heur = -8.0, depth = 8
iter = 7873, queue = 12609, heur = -8.0, depth = 8
iter = 7874, queue = 12610, heur = -8.0, depth = 8
iter = 7875, queue = 12611, heur = -8.0, depth = 8
iter = 7876, queue = 12613, heur = -8.0, depth = 9
iter = 7877, queue = 12616, heur = -8.0, depth = 8
iter = 7878, queue = 12617, heur = -8.0, depth = 8
iter = 7879, queue = 12618, heur = -8.0, depth = 8
iter = 7880, queue = 12618, heur = -8.0, depth = 8
iter = 7881, queue = 12619, heur = -8.0, depth = 8
iter = 7882, queue = 12620, heur = -8.0, depth = 8
iter = 7883, queue = 12621, heur = -8.0, depth = 8
iter = 7884, queue = 12624, heur = -8.0, depth = 8
iter = 7885, queue = 12623, heur = -8.0, depth = 8
iter = 7886, queue = 12625, heur = -8.0, depth = 8
iter = 7887, queue = 12626, heur = -8.0, depth = 8
iter = 7888, queue = 12627, heur = -8.0, depth = 8
iter = 7889, queue = 12630, heur = -8.0, depth = 8
iter = 7890, queue = 12630, heur = -8.0, depth = 8
iter = 7891, queue = 12630, heur = -8.0, depth = 9
iter = 7892, queue = 12632, heur = -8.0, depth = 8
iter = 7893, queue = 12632, heur = -8.0, depth = 8
iter = 7894, queue = 12634, heur = -8.0, depth = 8
iter = 7895, queue = 12637, heur = -8.0, depth = 8
iter = 7896, queue = 12638, heur = -8.0, depth = 8
iter = 7897, queue = 12641, heur = -8.0, depth = 8
iter = 7898, queue = 12640, heur = -8.0, depth = 8
iter = 7899, queue = 12641, heur = -8.0, depth = 8
iter = 7900, queue = 12644, heur = -8.0, depth = 9
iter = 7901, queue = 12647, heur = -8.0, depth = 8
iter = 7902, queue = 12648, heur = -8.0, depth = 8
iter = 7903, queue = 12648, heur = -8.0, depth = 8
iter = 7904, queue = 12648, heur = -8.0, depth = 8
```

```
iter = 7905, queue = 12650, heur = -8.0, depth = 8
iter = 7906, queue = 12650, heur = -8.0, depth = 8
iter = 7907, queue = 12651, heur = -8.0, depth = 8
iter = 7908, queue = 12651, heur = -8.0, depth = 8
iter = 7909, queue = 12654, heur = -8.0, depth = 8
iter = 7910, queue = 12655, heur = -8.0, depth = 8
iter = 7911, queue = 12656, heur = -8.0, depth = 8
iter = 7912, queue = 12657, heur = -8.0, depth = 8
iter = 7913, queue = 12658, heur = -8.0, depth = 8
iter = 7914, queue = 12660, heur = -8.0, depth = 8
iter = 7915, queue = 12660, heur = -8.0, depth = 8
iter = 7916, queue = 12661, heur = -8.0, depth = 8
iter = 7917, queue = 12664, heur = -8.0, depth = 8
iter = 7918, queue = 12665, heur = -8.0, depth = 8
iter = 7919, queue = 12664, heur = -8.0, depth = 8
iter = 7920, queue = 12663, heur = -8.0, depth = 8
iter = 7921, queue = 12666, heur = -8.0, depth = 8
iter = 7922, queue = 12667, heur = -8.0, depth = 8
iter = 7923, queue = 12668, heur = -8.0, depth = 8
iter = 7924, queue = 12671, heur = -8.0, depth = 8
iter = 7925, queue = 12672, heur = -8.0, depth = 8
iter = 7926, queue = 12671, heur = -8.0, depth = 9
iter = 7927, queue = 12672, heur = -8.0, depth = 8
iter = 7928, queue = 12672, heur = -8.0, depth = 8
iter = 7929, queue = 12673, heur = -8.0, depth = 8
iter = 7930, queue = 12674, heur = -8.0, depth = 8
iter = 7931, queue = 12676, heur = -8.0, depth = 8
iter = 7932, queue = 12676, heur = -8.0, depth = 8
iter = 7933, queue = 12677, heur = -8.0, depth = 8
iter = 7934, queue = 12680, heur = -8.0, depth = 8
iter = 7935, queue = 12683, heur = -8.0, depth = 8
iter = 7936, queue = 12683, heur = -8.0, depth = 8
iter = 7937, queue = 12683, heur = -8.0, depth = 8
iter = 7938, queue = 12684, heur = -8.0, depth = 8
iter = 7939, queue = 12685, heur = -8.0, depth = 8
iter = 7940, queue = 12686, heur = -8.0, depth = 8
iter = 7941, queue = 12687, heur = -8.0, depth = 8
iter = 7942, queue = 12688, heur = -8.0, depth = 8
iter = 7943, queue = 12689, heur = -8.0, depth = 8
iter = 7944, queue = 12692, heur = -8.0, depth = 8
iter = 7945, queue = 12695, heur = -8.0, depth = 8
iter = 7946, queue = 12694, heur = -8.0, depth = 8
iter = 7947, queue = 12694, heur = -8.0, depth = 8
iter = 7948, queue = 12697, heur = -8.0, depth = 8
iter = 7949, queue = 12698, heur = -8.0, depth = 8
iter = 7950, queue = 12701, heur = -8.0, depth = 8
iter = 7951, queue = 12702, heur = -8.0, depth = 8
iter = 7952, queue = 12703, heur = -8.0, depth = 8
iter = 7953, queue = 12705, heur = -8.0, depth = 8
iter = 7954, queue = 12708, heur = -8.0, depth = 8
iter = 7955, queue = 12711, heur = -8.0, depth = 8
iter = 7956, queue = 12713, heur = -8.0, depth = 8
iter = 7957, queue = 12715, heur = -8.0, depth = 8
iter = 7958, queue = 12716, heur = -8.0, depth = 8
iter = 7959, queue = 12717, heur = -8.0, depth = 8
iter = 7960, queue = 12718, heur = -8.0, depth = 8
iter = 7961, queue = 12719, heur = -8.0, depth = 8
iter = 7962, queue = 12719, heur = -8.0, depth = 8
iter = 7963, queue = 12721, heur = -8.0, depth = 8
```

```
iter = 7964, queue = 12722, heur = -8.0, depth = 8
iter = 7965, queue = 12723, heur = -8.0, depth = 8
iter = 7966, queue = 12724, heur = -8.0, depth = 8
iter = 7967, queue = 12723, heur = -8.0, depth = 8
iter = 7968, queue = 12724, heur = -8.0, depth = 8
iter = 7969, queue = 12726, heur = -8.0, depth = 8
iter = 7970, queue = 12729, heur = -8.0, depth = 8
iter = 7971, queue = 12729, heur = -8.0, depth = 8
iter = 7972, queue = 12730, heur = -8.0, depth = 8
iter = 7973, queue = 12730, heur = -8.0, depth = 9
iter = 7974, queue = 12733, heur = -8.0, depth = 8
iter = 7975, queue = 12734, heur = -8.0, depth = 8
iter = 7976, queue = 12735, heur = -8.0, depth = 8
iter = 7977, queue = 12736, heur = -8.0, depth = 8
iter = 7978, queue = 12737, heur = -8.0, depth = 8
iter = 7979, queue = 12738, heur = -8.0, depth = 8
iter = 7980, queue = 12739, heur = -8.0, depth = 9
iter = 7981, queue = 12740, heur = -8.0, depth = 9
iter = 7982, queue = 12743, heur = -8.0, depth = 8
iter = 7983, queue = 12743, heur = -8.0, depth = 8
iter = 7984, queue = 12744, heur = -8.0, depth = 8
iter = 7985, queue = 12747, heur = -8.0, depth = 8
iter = 7986, queue = 12748, heur = -8.0, depth = 8
iter = 7987, queue = 12749, heur = -8.0, depth = 8
iter = 7988, queue = 12748, heur = -8.0, depth = 8
iter = 7989, queue = 12747, heur = -8.0, depth = 8
iter = 7990, queue = 12748, heur = -8.0, depth = 8
iter = 7991, queue = 12750, heur = -8.0, depth = 8
iter = 7992, queue = 12753, heur = -8.0, depth = 8
iter = 7993, queue = 12753, heur = -8.0, depth = 8
iter = 7994, queue = 12752, heur = -8.0, depth = 8
iter = 7995, queue = 12752, heur = -8.0, depth = 8
iter = 7996, queue = 12755, heur = -8.0, depth = 8
iter = 7997, queue = 12756, heur = -8.0, depth = 8
iter = 7998, queue = 12757, heur = -8.0, depth = 8
iter = 7999, queue = 12758, heur = -8.0, depth = 8
iter = 8000, queue = 12758, heur = -8.0, depth = 8
iter = 8001, queue = 12758, heur = -8.0, depth = 8
iter = 8002, queue = 12759, heur = -8.0, depth = 8
iter = 8003, queue = 12762, heur = -8.0, depth = 8
iter = 8004, queue = 12763, heur = -8.0, depth = 8
iter = 8005, queue = 12764, heur = -8.0, depth = 11
iter = 8006, queue = 12765, heur = -8.0, depth = 8
iter = 8007, queue = 12767, heur = -8.0, depth = 8
iter = 8008, queue = 12769, heur = -8.0, depth = 8
iter = 8009, queue = 12771, heur = -8.0, depth = 11
iter = 8010, queue = 12770, heur = -8.0, depth = 9
iter = 8011, queue = 12770, heur = -8.0, depth = 9
iter = 8012, queue = 12773, heur = -8.0, depth = 8
iter = 8013, queue = 12774, heur = -8.0, depth = 8
iter = 8014, queue = 12775, heur = -8.0, depth = 8
iter = 8015, queue = 12778, heur = -8.0, depth = 8
iter = 8016, queue = 12780, heur = -8.0, depth = 8
iter = 8017, queue = 12781, heur = -8.0, depth = 8
iter = 8018, queue = 12784, heur = -8.0, depth = 10
iter = 8019, queue = 12785, heur = -8.0, depth = 8
iter = 8020, queue = 12788, heur = -8.0, depth = 10
iter = 8021, queue = 12787, heur = -8.0, depth = 8
iter = 8022, queue = 12790, heur = -8.0, depth = 8
```

```
iter = 8023, queue = 12790, heur = -8.0, depth = 8
iter = 8024, queue = 12791, heur = -8.0, depth = 8
iter = 8025, queue = 12790, heur = -8.0, depth = 8
iter = 8026, queue = 12793, heur = -8.0, depth = 8
iter = 8027, queue = 12795, heur = -8.0, depth = 8
iter = 8028, queue = 12796, heur = -8.0, depth = 8
iter = 8029, queue = 12796, heur = -8.0, depth = 9
iter = 8030, queue = 12799, heur = -8.0, depth = 8
iter = 8031, queue = 12798, heur = -8.0, depth = 10
iter = 8032, queue = 12801, heur = -8.0, depth = 9
iter = 8033, queue = 12804, heur = -8.0, depth = 9
iter = 8034, queue = 12806, heur = -8.0, depth = 9
iter = 8035, queue = 12805, heur = -8.0, depth = 8
iter = 8036, queue = 12806, heur = -8.0, depth = 8
iter = 8037, queue = 12806, heur = -8.0, depth = 8
iter = 8038, queue = 12809, heur = -8.0, depth = 8
iter = 8039, queue = 12812, heur = -8.0, depth = 8
iter = 8040, queue = 12813, heur = -8.0, depth = 8
iter = 8041, queue = 12813, heur = -8.0, depth = 8
iter = 8042, queue = 12816, heur = -8.0, depth = 8
iter = 8043, queue = 12818, heur = -8.0, depth = 8
iter = 8044, queue = 12818, heur = -8.0, depth = 8
iter = 8045, queue = 12821, heur = -8.0, depth = 8
iter = 8046, queue = 12823, heur = -8.0, depth = 8
iter = 8047, queue = 12826, heur = -8.0, depth = 8
iter = 8048, queue = 12827, heur = -8.0, depth = 8
iter = 8049, queue = 12828, heur = -8.0, depth = 8
iter = 8050, queue = 12830, heur = -8.0, depth = 8
iter = 8051, queue = 12831, heur = -8.0, depth = 8
iter = 8052, queue = 12832, heur = -8.0, depth = 8
iter = 8053, queue = 12833, heur = -8.0, depth = 8
iter = 8054, queue = 12834, heur = -8.0, depth = 8
iter = 8055, queue = 12835, heur = -8.0, depth = 8
iter = 8056, queue = 12838, heur = -8.0, depth = 8
iter = 8057, queue = 12838, heur = -8.0, depth = 8
iter = 8058, queue = 12841, heur = -8.0, depth = 8
iter = 8059, queue = 12844, heur = -8.0, depth = 8
iter = 8060, queue = 12845, heur = -8.0, depth = 8
iter = 8061, queue = 12845, heur = -8.0, depth = 8
iter = 8062, queue = 12847, heur = -8.0, depth = 8
iter = 8063, queue = 12848, heur = -8.0, depth = 8
iter = 8064, queue = 12850, heur = -8.0, depth = 8
iter = 8065, queue = 12852, heur = -8.0, depth = 8
iter = 8066, queue = 12854, heur = -8.0, depth = 8
iter = 8067, queue = 12855, heur = -8.0, depth = 8
iter = 8068, queue = 12856, heur = -8.0, depth = 8
iter = 8069, queue = 12857, heur = -8.0, depth = 8
iter = 8070, queue = 12860, heur = -8.0, depth = 8
iter = 8071, queue = 12860, heur = -8.0, depth = 8
iter = 8072, queue = 12859, heur = -8.0, depth = 8
iter = 8073, queue = 12861, heur = -8.0, depth = 8
iter = 8074, queue = 12862, heur = -8.0, depth = 8
iter = 8075, queue = 12863, heur = -8.0, depth = 8
iter = 8076, queue = 12863, heur = -8.0, depth = 8
iter = 8077, queue = 12862, heur = -8.0, depth = 8
iter = 8078, queue = 12863, heur = -8.0, depth = 8
iter = 8079, queue = 12864, heur = -8.0, depth = 8
iter = 8080, queue = 12867, heur = -8.0, depth = 8
iter = 8081, queue = 12866, heur = -8.0, depth = 8
```

```
iter = 8082, queue = 12868, heur = -8.0, depth = 8
iter = 8083, queue = 12868, heur = -8.0, depth = 8
iter = 8084, queue = 12871, heur = -8.0, depth = 8
iter = 8085, queue = 12872, heur = -8.0, depth = 8
iter = 8086, queue = 12873, heur = -8.0, depth = 9
iter = 8087, queue = 12873, heur = -8.0, depth = 8
iter = 8088, queue = 12872, heur = -8.0, depth = 9
iter = 8089, queue = 12874, heur = -8.0, depth = 8
iter = 8090, queue = 12875, heur = -8.0, depth = 8
iter = 8091, queue = 12876, heur = -8.0, depth = 9
iter = 8092, queue = 12876, heur = -8.0, depth = 9
iter = 8093, queue = 12878, heur = -8.0, depth = 8
iter = 8094, queue = 12878, heur = -8.0, depth = 8
iter = 8095, queue = 12879, heur = -8.0, depth = 8
iter = 8096, queue = 12879, heur = -8.0, depth = 8
iter = 8097, queue = 12880, heur = -8.0, depth = 8
iter = 8098, queue = 12883, heur = -8.0, depth = 8
iter = 8099, queue = 12885, heur = -8.0, depth = 8
iter = 8100, queue = 12884, heur = -8.0, depth = 8
iter = 8101, queue = 12885, heur = -8.0, depth = 8
iter = 8102, queue = 12886, heur = -8.0, depth = 8
iter = 8103, queue = 12887, heur = -8.0, depth = 8
iter = 8104, queue = 12889, heur = -8.0, depth = 8
iter = 8105, queue = 12889, heur = -8.0, depth = 8
iter = 8106, queue = 12890, heur = -8.0, depth = 8
iter = 8107, queue = 12891, heur = -8.0, depth = 8
iter = 8108, queue = 12892, heur = -8.0, depth = 8
iter = 8109, queue = 12893, heur = -8.0, depth = 8
iter = 8110, queue = 12895, heur = -8.0, depth = 8
iter = 8111, queue = 12897, heur = -8.0, depth = 8
iter = 8112, queue = 12898, heur = -8.0, depth = 8
iter = 8113, queue = 12901, heur = -8.0, depth = 8
iter = 8114, queue = 12902, heur = -8.0, depth = 8
iter = 8115, queue = 12903, heur = -8.0, depth = 8
iter = 8116, queue = 12903, heur = -8.0, depth = 8
iter = 8117, queue = 12904, heur = -8.0, depth = 8
iter = 8118, queue = 12905, heur = -8.0, depth = 10
iter = 8119, queue = 12906, heur = -8.0, depth = 8
iter = 8120, queue = 12909, heur = -8.0, depth = 11
iter = 8121, queue = 12910, heur = -8.0, depth = 8
iter = 8122, queue = 12912, heur = -8.0, depth = 8
iter = 8123, queue = 12914, heur = -8.0, depth = 8
iter = 8124, queue = 12915, heur = -8.0, depth = 8
iter = 8125, queue = 12916, heur = -8.0, depth = 8
iter = 8126, queue = 12919, heur = -8.0, depth = 8
iter = 8127, queue = 12922, heur = -8.0, depth = 8
iter = 8128, queue = 12923, heur = -8.0, depth = 8
iter = 8129, queue = 12924, heur = -8.0, depth = 8
iter = 8130, queue = 12925, heur = -8.0, depth = 8
iter = 8131, queue = 12926, heur = -8.0, depth = 8
iter = 8132, queue = 12927, heur = -8.0, depth = 8
iter = 8133, queue = 12928, heur = -8.0, depth = 8
iter = 8134, queue = 12930, heur = -8.0, depth = 8
iter = 8135, queue = 12931, heur = -8.0, depth = 8
iter = 8136, queue = 12932, heur = -8.0, depth = 8
iter = 8137, queue = 12931, heur = -8.0, depth = 8
iter = 8138, queue = 12934, heur = -8.0, depth = 8
iter = 8139, queue = 12937, heur = -8.0, depth = 8
iter = 8140, queue = 12936, heur = -8.0, depth = 8
```

```
iter = 8141, queue = 12936, heur = -8.0, depth = 8
iter = 8142, queue = 12939, heur = -8.0, depth = 8
iter = 8143, queue = 12940, heur = -8.0, depth = 8
iter = 8144, queue = 12940, heur = -8.0, depth = 8
iter = 8145, queue = 12943, heur = -8.0, depth = 8
iter = 8146, queue = 12946, heur = -8.0, depth = 8
iter = 8147, queue = 12945, heur = -8.0, depth = 8
iter = 8148, queue = 12946, heur = -8.0, depth = 8
iter = 8149, queue = 12949, heur = -8.0, depth = 8
iter = 8150, queue = 12950, heur = -8.0, depth = 8
iter = 8151, queue = 12950, heur = -8.0, depth = 9
iter = 8152, queue = 12953, heur = -8.0, depth = 8
iter = 8153, queue = 12956, heur = -8.0, depth = 8
iter = 8154, queue = 12956, heur = -8.0, depth = 8
iter = 8155, queue = 12959, heur = -8.0, depth = 8
iter = 8156, queue = 12960, heur = -8.0, depth = 8
iter = 8157, queue = 12961, heur = -8.0, depth = 8
iter = 8158, queue = 12964, heur = -8.0, depth = 8
iter = 8159, queue = 12967, heur = -8.0, depth = 8
iter = 8160, queue = 12966, heur = -8.0, depth = 8
iter = 8161, queue = 12967, heur = -8.0, depth = 8
iter = 8162, queue = 12967, heur = -8.0, depth = 8
iter = 8163, queue = 12968, heur = -8.0, depth = 8
iter = 8164, queue = 12969, heur = -8.0, depth = 8
iter = 8165, queue = 12970, heur = -8.0, depth = 8
iter = 8166, queue = 12971, heur = -8.0, depth = 8
iter = 8167, queue = 12971, heur = -8.0, depth = 8
iter = 8168, queue = 12972, heur = -8.0, depth = 8
iter = 8169, queue = 12973, heur = -8.0, depth = 8
iter = 8170, queue = 12973, heur = -8.0, depth = 8
iter = 8171, queue = 12975, heur = -8.0, depth = 8
iter = 8172, queue = 12977, heur = -8.0, depth = 8
iter = 8173, queue = 12979, heur = -8.0, depth = 8
iter = 8174, queue = 12982, heur = -8.0, depth = 8
iter = 8175, queue = 12982, heur = -8.0, depth = 8
iter = 8176, queue = 12981, heur = -8.0, depth = 8
iter = 8177, queue = 12983, heur = -8.0, depth = 8
iter = 8178, queue = 12984, heur = -8.0, depth = 8
iter = 8179, queue = 12985, heur = -8.0, depth = 8
iter = 8180, queue = 12988, heur = -8.0, depth = 8
iter = 8181, queue = 12991, heur = -8.0, depth = 8
iter = 8182, queue = 12993, heur = -8.0, depth = 8
iter = 8183, queue = 12996, heur = -8.0, depth = 8
iter = 8184, queue = 12995, heur = -8.0, depth = 8
iter = 8185, queue = 12998, heur = -8.0, depth = 8
iter = 8186, queue = 12999, heur = -8.0, depth = 8
iter = 8187, queue = 12998, heur = -8.0, depth = 8
iter = 8188, queue = 12998, heur = -8.0, depth = 8
iter = 8189, queue = 12999, heur = -8.0, depth = 8
iter = 8190, queue = 12998, heur = -8.0, depth = 8
iter = 8191, queue = 13000, heur = -8.0, depth = 8
iter = 8192, queue = 13002, heur = -8.0, depth = 8
iter = 8193, queue = 13002, heur = -8.0, depth = 8
iter = 8194, queue = 13003, heur = -8.0, depth = 8
iter = 8195, queue = 13004, heur = -8.0, depth = 9
iter = 8196, queue = 13004, heur = -8.0, depth = 8
iter = 8197, queue = 13007, heur = -8.0, depth = 8
iter = 8198, queue = 13008, heur = -8.0, depth = 8
iter = 8199, queue = 13011, heur = -8.0, depth = 8
```

```
iter = 8200, queue = 13012, heur = -8.0, depth = 8
iter = 8201, queue = 13015, heur = -8.0, depth = 8
iter = 8202, queue = 13016, heur = -8.0, depth = 8
iter = 8203, queue = 13017, heur = -8.0, depth = 8
iter = 8204, queue = 13018, heur = -8.0, depth = 8
iter = 8205, queue = 13018, heur = -8.0, depth = 8
iter = 8206, queue = 13017, heur = -8.0, depth = 8
iter = 8207, queue = 13017, heur = -8.0, depth = 8
iter = 8208, queue = 13017, heur = -8.0, depth = 8
iter = 8209, queue = 13017, heur = -8.0, depth = 8
iter = 8210, queue = 13017, heur = -8.0, depth = 8
iter = 8211, queue = 13020, heur = -8.0, depth = 8
iter = 8212, queue = 13021, heur = -8.0, depth = 8
iter = 8213, queue = 13020, heur = -8.0, depth = 8
iter = 8214, queue = 13022, heur = -8.0, depth = 8
iter = 8215, queue = 13023, heur = -8.0, depth = 8
iter = 8216, queue = 13024, heur = -8.0, depth = 8
iter = 8217, queue = 13025, heur = -8.0, depth = 8
iter = 8218, queue = 13025, heur = -8.0, depth = 8
iter = 8219, queue = 13027, heur = -8.0, depth = 8
iter = 8220, queue = 13028, heur = -8.0, depth = 8
iter = 8221, queue = 13029, heur = -8.0, depth = 8
iter = 8222, queue = 13028, heur = -8.0, depth = 8
iter = 8223, queue = 13031, heur = -8.0, depth = 8
iter = 8224, queue = 13032, heur = -8.0, depth = 9
iter = 8225, queue = 13034, heur = -8.0, depth = 8
iter = 8226, queue = 13034, heur = -8.0, depth = 10
iter = 8227, queue = 13036, heur = -8.0, depth = 9
iter = 8228, queue = 13035, heur = -8.0, depth = 8
iter = 8229, queue = 13035, heur = -8.0, depth = 8
iter = 8230, queue = 13037, heur = -8.0, depth = 9
iter = 8231, queue = 13038, heur = -8.0, depth = 8
iter = 8232, queue = 13038, heur = -8.0, depth = 8
iter = 8233, queue = 13039, heur = -8.0, depth = 8
iter = 8234, queue = 13040, heur = -8.0, depth = 8
iter = 8235, queue = 13043, heur = -8.0, depth = 8
iter = 8236, queue = 13046, heur = -8.0, depth = 8
iter = 8237, queue = 13048, heur = -8.0, depth = 8
iter = 8238, queue = 13051, heur = -8.0, depth = 8
iter = 8239, queue = 13054, heur = -8.0, depth = 8
iter = 8240, queue = 13057, heur = -8.0, depth = 8
iter = 8241, queue = 13059, heur = -8.0, depth = 8
iter = 8242, queue = 13062, heur = -8.0, depth = 8
iter = 8243, queue = 13065, heur = -8.0, depth = 8
iter = 8244, queue = 13066, heur = -8.0, depth = 8
iter = 8245, queue = 13067, heur = -8.0, depth = 8
iter = 8246, queue = 13067, heur = -8.0, depth = 8
iter = 8247, queue = 13068, heur = -8.0, depth = 8
iter = 8248, queue = 13069, heur = -8.0, depth = 8
iter = 8249, queue = 13072, heur = -8.0, depth = 8
iter = 8250, queue = 13073, heur = -8.0, depth = 8
iter = 8251, queue = 13074, heur = -8.0, depth = 9
iter = 8252, queue = 13073, heur = -8.0, depth = 8
iter = 8253, queue = 13074, heur = -8.0, depth = 9
iter = 8254, queue = 13076, heur = -8.0, depth = 8
iter = 8255, queue = 13078, heur = -8.0, depth = 8
iter = 8256, queue = 13079, heur = -8.0, depth = 8
iter = 8257, queue = 13079, heur = -8.0, depth = 9
iter = 8258, queue = 13080, heur = -8.0, depth = 8
```

```
iter = 8259, queue = 13083, heur = -8.0, depth = 8
iter = 8260, queue = 13086, heur = -8.0, depth = 9
iter = 8261, queue = 13087, heur = -8.0, depth = 9
iter = 8262, queue = 13089, heur = -8.0, depth = 9
iter = 8263, queue = 13090, heur = -8.0, depth = 8
iter = 8264, queue = 13091, heur = -8.0, depth = 8
iter = 8265, queue = 13091, heur = -8.0, depth = 8
iter = 8266, queue = 13092, heur = -8.0, depth = 9
iter = 8267, queue = 13093, heur = -8.0, depth = 9
iter = 8268, queue = 13093, heur = -8.0, depth = 9
iter = 8269, queue = 13094, heur = -8.0, depth = 9
iter = 8270, queue = 13095, heur = -8.0, depth = 8
iter = 8271, queue = 13098, heur = -8.0, depth = 9
iter = 8272, queue = 13100, heur = -8.0, depth = 9
iter = 8273, queue = 13101, heur = -8.0, depth = 9
iter = 8274, queue = 13100, heur = -8.0, depth = 9
iter = 8275, queue = 13101, heur = -8.0, depth = 8
iter = 8276, queue = 13101, heur = -8.0, depth = 8
iter = 8277, queue = 13102, heur = -8.0, depth = 8
iter = 8278, queue = 13102, heur = -8.0, depth = 8
iter = 8279, queue = 13102, heur = -8.0, depth = 8
iter = 8280, queue = 13103, heur = -8.0, depth = 8
iter = 8281, queue = 13105, heur = -8.0, depth = 8
iter = 8282, queue = 13106, heur = -8.0, depth = 8
iter = 8283, queue = 13105, heur = -8.0, depth = 8
iter = 8284, queue = 13108, heur = -8.0, depth = 8
iter = 8285, queue = 13110, heur = -8.0, depth = 8
iter = 8286, queue = 13111, heur = -8.0, depth = 8
iter = 8287, queue = 13111, heur = -8.0, depth = 8
iter = 8288, queue = 13113, heur = -8.0, depth = 9
iter = 8289, queue = 13113, heur = -8.0, depth = 8
iter = 8290, queue = 13114, heur = -8.0, depth = 8
iter = 8291, queue = 13115, heur = -8.0, depth = 8
iter = 8292, queue = 13115, heur = -8.0, depth = 8
iter = 8293, queue = 13116, heur = -8.0, depth = 8
iter = 8294, queue = 13117, heur = -8.0, depth = 8
iter = 8295, queue = 13118, heur = -8.0, depth = 8
iter = 8296, queue = 13119, heur = -8.0, depth = 8
iter = 8297, queue = 13120, heur = -8.0, depth = 8
iter = 8298, queue = 13121, heur = -8.0, depth = 8
iter = 8299, queue = 13120, heur = -8.0, depth = 8
iter = 8300, queue = 13121, heur = -8.0, depth = 8
iter = 8301, queue = 13124, heur = -8.0, depth = 8
iter = 8302, queue = 13126, heur = -8.0, depth = 8
iter = 8303, queue = 13127, heur = -8.0, depth = 8
iter = 8304, queue = 13128, heur = -8.0, depth = 8
iter = 8305, queue = 13131, heur = -8.0, depth = 8
iter = 8306, queue = 13134, heur = -8.0, depth = 8
iter = 8307, queue = 13137, heur = -8.0, depth = 8
iter = 8308, queue = 13138, heur = -8.0, depth = 8
iter = 8309, queue = 13140, heur = -8.0, depth = 8
iter = 8310, queue = 13141, heur = -8.0, depth = 8
iter = 8311, queue = 13144, heur = -8.0, depth = 8
iter = 8312, queue = 13145, heur = -8.0, depth = 8
iter = 8313, queue = 13144, heur = -8.0, depth = 8
iter = 8314, queue = 13146, heur = -8.0, depth = 10
iter = 8315, queue = 13149, heur = -8.0, depth = 10
iter = 8316, queue = 13150, heur = -8.0, depth = 9
iter = 8317, queue = 13151, heur = -8.0, depth = 10
```

```
iter = 8318, queue = 13152, heur = -8.0, depth = 8
iter = 8319, queue = 13152, heur = -8.0, depth = 8
iter = 8320, queue = 13151, heur = -8.0, depth = 8
iter = 8321, queue = 13154, heur = -8.0, depth = 8
iter = 8322, queue = 13155, heur = -8.0, depth = 8
iter = 8323, queue = 13157, heur = -8.0, depth = 8
iter = 8324, queue = 13159, heur = -8.0, depth = 8
iter = 8325, queue = 13159, heur = -8.0, depth = 10
iter = 8326, queue = 13160, heur = -8.0, depth = 8
iter = 8327, queue = 13162, heur = -8.0, depth = 8
iter = 8328, queue = 13163, heur = -8.0, depth = 8
iter = 8329, queue = 13162, heur = -8.0, depth = 9
iter = 8330, queue = 13163, heur = -8.0, depth = 10
iter = 8331, queue = 13166, heur = -8.0, depth = 10
iter = 8332, queue = 13169, heur = -8.0, depth = 8
iter = 8333, queue = 13170, heur = -8.0, depth = 8
iter = 8334, queue = 13173, heur = -8.0, depth = 8
iter = 8335, queue = 13174, heur = -8.0, depth = 8
iter = 8336, queue = 13175, heur = -8.0, depth = 8
iter = 8337, queue = 13176, heur = -8.0, depth = 8
iter = 8338, queue = 13177, heur = -8.0, depth = 8
iter = 8339, queue = 13179, heur = -8.0, depth = 8
iter = 8340, queue = 13180, heur = -8.0, depth = 8
iter = 8341, queue = 13183, heur = -8.0, depth = 8
iter = 8342, queue = 13184, heur = -8.0, depth = 8
iter = 8343, queue = 13185, heur = -8.0, depth = 8
iter = 8344, queue = 13187, heur = -8.0, depth = 8
iter = 8345, queue = 13190, heur = -8.0, depth = 8
iter = 8346, queue = 13189, heur = -8.0, depth = 8
iter = 8347, queue = 13191, heur = -8.0, depth = 8
iter = 8348, queue = 13192, heur = -8.0, depth = 8
iter = 8349, queue = 13194, heur = -8.0, depth = 8
iter = 8350, queue = 13195, heur = -8.0, depth = 9
iter = 8351, queue = 13196, heur = -8.0, depth = 8
iter = 8352, queue = 13197, heur = -8.0, depth = 8
iter = 8353, queue = 13196, heur = -8.0, depth = 8
iter = 8354, queue = 13197, heur = -8.0, depth = 9
iter = 8355, queue = 13198, heur = -8.0, depth = 8
iter = 8356, queue = 13201, heur = -8.0, depth = 8
iter = 8357, queue = 13204, heur = -8.0, depth = 9
iter = 8358, queue = 13204, heur = -8.0, depth = 9
iter = 8359, queue = 13205, heur = -8.0, depth = 9
iter = 8360, queue = 13206, heur = -8.0, depth = 8
iter = 8361, queue = 13207, heur = -8.0, depth = 9
iter = 8362, queue = 13208, heur = -8.0, depth = 9
iter = 8363, queue = 13209, heur = -8.0, depth = 8
iter = 8364, queue = 13212, heur = -8.0, depth = 8
iter = 8365, queue = 13213, heur = -8.0, depth = 8
iter = 8366, queue = 13214, heur = -8.0, depth = 8
iter = 8367, queue = 13215, heur = -8.0, depth = 8
iter = 8368, queue = 13218, heur = -8.0, depth = 8
iter = 8369, queue = 13221, heur = -8.0, depth = 8
iter = 8370, queue = 13220, heur = -8.0, depth = 8
iter = 8371, queue = 13223, heur = -8.0, depth = 8
iter = 8372, queue = 13224, heur = -8.0, depth = 9
iter = 8373, queue = 13225, heur = -8.0, depth = 8
iter = 8374, queue = 13226, heur = -8.0, depth = 9
iter = 8375, queue = 13229, heur = -8.0, depth = 8
iter = 8376, queue = 13230, heur = -8.0, depth = 8
```

```
iter = 8377, queue = 13232, heur = -8.0, depth = 8
iter = 8378, queue = 13233, heur = -8.0, depth = 8
iter = 8379, queue = 13236, heur = -8.0, depth = 8
iter = 8380, queue = 13238, heur = -8.0, depth = 8
iter = 8381, queue = 13241, heur = -8.0, depth = 8
iter = 8382, queue = 13244, heur = -8.0, depth = 8
iter = 8383, queue = 13245, heur = -8.0, depth = 8
iter = 8384, queue = 13245, heur = -8.0, depth = 8
iter = 8385, queue = 13246, heur = -8.0, depth = 8
iter = 8386, queue = 13247, heur = -8.0, depth = 8
iter = 8387, queue = 13250, heur = -8.0, depth = 8
iter = 8388, queue = 13252, heur = -8.0, depth = 8
iter = 8389, queue = 13253, heur = -8.0, depth = 8
iter = 8390, queue = 13254, heur = -8.0, depth = 8
iter = 8391, queue = 13257, heur = -8.0, depth = 8
iter = 8392, queue = 13257, heur = -8.0, depth = 8
iter = 8393, queue = 13259, heur = -8.0, depth = 8
iter = 8394, queue = 13260, heur = -8.0, depth = 8
iter = 8395, queue = 13261, heur = -8.0, depth = 8
iter = 8396, queue = 13262, heur = -8.0, depth = 8
iter = 8397, queue = 13264, heur = -8.0, depth = 8
iter = 8398, queue = 13265, heur = -8.0, depth = 8
iter = 8399, queue = 13265, heur = -8.0, depth = 8
iter = 8400, queue = 13268, heur = -8.0, depth = 8
iter = 8401, queue = 13271, heur = -8.0, depth = 8
iter = 8402, queue = 13274, heur = -8.0, depth = 8
iter = 8403, queue = 13277, heur = -8.0, depth = 8
iter = 8404, queue = 13278, heur = -8.0, depth = 8
iter = 8405, queue = 13280, heur = -8.0, depth = 8
iter = 8406, queue = 13280, heur = -8.0, depth = 8
iter = 8407, queue = 13281, heur = -8.0, depth = 8
iter = 8408, queue = 13282, heur = -8.0, depth = 8
iter = 8409, queue = 13283, heur = -8.0, depth = 8
iter = 8410, queue = 13285, heur = -8.0, depth = 8
iter = 8411, queue = 13288, heur = -8.0, depth = 8
iter = 8412, queue = 13289, heur = -8.0, depth = 8
iter = 8413, queue = 13290, heur = -8.0, depth = 8
iter = 8414, queue = 13292, heur = -8.0, depth = 8
iter = 8415, queue = 13295, heur = -8.0, depth = 8
iter = 8416, queue = 13298, heur = -8.0, depth = 8
iter = 8417, queue = 13301, heur = -8.0, depth = 8
iter = 8418, queue = 13302, heur = -8.0, depth = 8
iter = 8419, queue = 13305, heur = -8.0, depth = 8
iter = 8420, queue = 13306, heur = -8.0, depth = 9
iter = 8421, queue = 13309, heur = -8.0, depth = 8
iter = 8422, queue = 13309, heur = -8.0, depth = 8
iter = 8423, queue = 13312, heur = -8.0, depth = 9
iter = 8424, queue = 13313, heur = -8.0, depth = 9
iter = 8425, queue = 13314, heur = -8.0, depth = 8
iter = 8426, queue = 13317, heur = -8.0, depth = 8
iter = 8427, queue = 13319, heur = -8.0, depth = 8
iter = 8428, queue = 13322, heur = -8.0, depth = 8
iter = 8429, queue = 13324, heur = -8.0, depth = 8
iter = 8430, queue = 13327, heur = -8.0, depth = 8
iter = 8431, queue = 13327, heur = -8.0, depth = 8
iter = 8432, queue = 13330, heur = -8.0, depth = 8
iter = 8433, queue = 13330, heur = -8.0, depth = 9
iter = 8434, queue = 13331, heur = -8.0, depth = 8
iter = 8435, queue = 13333, heur = -8.0, depth = 8
```

```
iter = 8436, queue = 13333, heur = -8.0, depth = 8
iter = 8437, queue = 13335, heur = -8.0, depth = 8
iter = 8438, queue = 13336, heur = -8.0, depth = 8
iter = 8439, queue = 13339, heur = -8.0, depth = 8
iter = 8440, queue = 13339, heur = -8.0, depth = 8
iter = 8441, queue = 13340, heur = -8.0, depth = 8
iter = 8442, queue = 13343, heur = -8.0, depth = 8
iter = 8443, queue = 13346, heur = -8.0, depth = 8
iter = 8444, queue = 13347, heur = -8.0, depth = 8
iter = 8445, queue = 13350, heur = -8.0, depth = 8
iter = 8446, queue = 13351, heur = -8.0, depth = 8
iter = 8447, queue = 13354, heur = -8.0, depth = 8
iter = 8448, queue = 13355, heur = -8.0, depth = 8
iter = 8449, queue = 13358, heur = -8.0, depth = 8
iter = 8450, queue = 13359, heur = -8.0, depth = 8
iter = 8451, queue = 13362, heur = -8.0, depth = 8
iter = 8452, queue = 13361, heur = -8.0, depth = 8
iter = 8453, queue = 13364, heur = -8.0, depth = 8
iter = 8454, queue = 13366, heur = -8.0, depth = 8
iter = 8455, queue = 13367, heur = -8.0, depth = 8
iter = 8456, queue = 13368, heur = -8.0, depth = 8
iter = 8457, queue = 13369, heur = -8.0, depth = 8
iter = 8458, queue = 13372, heur = -8.0, depth = 8
iter = 8459, queue = 13373, heur = -8.0, depth = 8
iter = 8460, queue = 13372, heur = -8.0, depth = 8
iter = 8461, queue = 13373, heur = -8.0, depth = 8
iter = 8462, queue = 13375, heur = -8.0, depth = 8
iter = 8463, queue = 13375, heur = -8.0, depth = 8
iter = 8464, queue = 13376, heur = -8.0, depth = 8
iter = 8465, queue = 13377, heur = -8.0, depth = 8
iter = 8466, queue = 13378, heur = -8.0, depth = 8
iter = 8467, queue = 13378, heur = -8.0, depth = 8
iter = 8468, queue = 13380, heur = -8.0, depth = 8
iter = 8469, queue = 13380, heur = -8.0, depth = 8
iter = 8470, queue = 13381, heur = -8.0, depth = 8
iter = 8471, queue = 13384, heur = -8.0, depth = 8
iter = 8472, queue = 13385, heur = -8.0, depth = 8
iter = 8473, queue = 13385, heur = -8.0, depth = 8
iter = 8474, queue = 13387, heur = -8.0, depth = 8
iter = 8475, queue = 13387, heur = -8.0, depth = 8
iter = 8476, queue = 13387, heur = -8.0, depth = 8
iter = 8477, queue = 13387, heur = -8.0, depth = 8
iter = 8478, queue = 13390, heur = -8.0, depth = 8
iter = 8479, queue = 13391, heur = -8.0, depth = 8
iter = 8480, queue = 13392, heur = -8.0, depth = 9
iter = 8481, queue = 13392, heur = -8.0, depth = 8
iter = 8482, queue = 13395, heur = -8.0, depth = 8
iter = 8483, queue = 13395, heur = -8.0, depth = 8
iter = 8484, queue = 13394, heur = -8.0, depth = 8
iter = 8485, queue = 13394, heur = -8.0, depth = 8
iter = 8486, queue = 13393, heur = -8.0, depth = 8
iter = 8487, queue = 13394, heur = -8.0, depth = 8
iter = 8488, queue = 13394, heur = -8.0, depth = 8
iter = 8489, queue = 13395, heur = -8.0, depth = 8
iter = 8490, queue = 13396, heur = -8.0, depth = 8
iter = 8491, queue = 13395, heur = -8.0, depth = 8
iter = 8492, queue = 13396, heur = -8.0, depth = 8
iter = 8493, queue = 13398, heur = -8.0, depth = 8
iter = 8494, queue = 13401, heur = -8.0, depth = 8
```

```
iter = 8495, queue = 13404, heur = -8.0, depth = 8
iter = 8496, queue = 13403, heur = -8.0, depth = 8
iter = 8497, queue = 13403, heur = -8.0, depth = 8
iter = 8498, queue = 13404, heur = -8.0, depth = 8
iter = 8499, queue = 13407, heur = -8.0, depth = 8
iter = 8500, queue = 13410, heur = -8.0, depth = 8
iter = 8501, queue = 13410, heur = -8.0, depth = 8
iter = 8502, queue = 13410, heur = -8.0, depth = 8
iter = 8503, queue = 13412, heur = -8.0, depth = 8
iter = 8504, queue = 13413, heur = -8.0, depth = 8
iter = 8505, queue = 13415, heur = -8.0, depth = 8
iter = 8506, queue = 13416, heur = -8.0, depth = 8
iter = 8507, queue = 13419, heur = -8.0, depth = 8
iter = 8508, queue = 13418, heur = -8.0, depth = 8
iter = 8509, queue = 13419, heur = -8.0, depth = 8
iter = 8510, queue = 13419, heur = -8.0, depth = 8
iter = 8511, queue = 13421, heur = -8.0, depth = 8
iter = 8512, queue = 13422, heur = -8.0, depth = 8
iter = 8513, queue = 13425, heur = -8.0, depth = 8
iter = 8514, queue = 13428, heur = -8.0, depth = 8
iter = 8515, queue = 13429, heur = -8.0, depth = 8
iter = 8516, queue = 13432, heur = -8.0, depth = 8
iter = 8517, queue = 13435, heur = -8.0, depth = 8
iter = 8518, queue = 13434, heur = -8.0, depth = 8
iter = 8519, queue = 13437, heur = -8.0, depth = 8
iter = 8520, queue = 13438, heur = -8.0, depth = 8
iter = 8521, queue = 13438, heur = -8.0, depth = 8
iter = 8522, queue = 13439, heur = -8.0, depth = 8
iter = 8523, queue = 13438, heur = -8.0, depth = 8
iter = 8524, queue = 13439, heur = -8.0, depth = 8
iter = 8525, queue = 13439, heur = -8.0, depth = 8
iter = 8526, queue = 13442, heur = -8.0, depth = 8
iter = 8527, queue = 13443, heur = -8.0, depth = 8
iter = 8528, queue = 13445, heur = -8.0, depth = 8
iter = 8529, queue = 13444, heur = -8.0, depth = 8
iter = 8530, queue = 13445, heur = -8.0, depth = 8
iter = 8531, queue = 13445, heur = -8.0, depth = 8
iter = 8532, queue = 13447, heur = -8.0, depth = 8
iter = 8533, queue = 13448, heur = -8.0, depth = 8
iter = 8534, queue = 13447, heur = -8.0, depth = 8
iter = 8535, queue = 13448, heur = -8.0, depth = 8
iter = 8536, queue = 13448, heur = -8.0, depth = 8
iter = 8537, queue = 13447, heur = -8.0, depth = 8
iter = 8538, queue = 13448, heur = -8.0, depth = 8
iter = 8539, queue = 13447, heur = -8.0, depth = 8
iter = 8540, queue = 13448, heur = -8.0, depth = 8
iter = 8541, queue = 13448, heur = -8.0, depth = 9
iter = 8542, queue = 13448, heur = -8.0, depth = 8
iter = 8543, queue = 13447, heur = -8.0, depth = 8
iter = 8544, queue = 13450, heur = -8.0, depth = 8
iter = 8545, queue = 13451, heur = -8.0, depth = 8
iter = 8546, queue = 13451, heur = -8.0, depth = 8
iter = 8547, queue = 13452, heur = -8.0, depth = 8
iter = 8548, queue = 13453, heur = -8.0, depth = 8
iter = 8549, queue = 13454, heur = -8.0, depth = 8
iter = 8550, queue = 13453, heur = -8.0, depth = 8
iter = 8551, queue = 13454, heur = -8.0, depth = 9
iter = 8552, queue = 13455, heur = -8.0, depth = 8
iter = 8553, queue = 13457, heur = -8.0, depth = 8
```

```
iter = 8554, queue = 13460, heur = -8.0, depth = 8
iter = 8555, queue = 13461, heur = -8.0, depth = 8
iter = 8556, queue = 13464, heur = -8.0, depth = 8
iter = 8557, queue = 13465, heur = -8.0, depth = 8
iter = 8558, queue = 13467, heur = -8.0, depth = 8
iter = 8559, queue = 13467, heur = -8.0, depth = 8
iter = 8560, queue = 13468, heur = -8.0, depth = 10
iter = 8561, queue = 13471, heur = -8.0, depth = 8
iter = 8562, queue = 13471, heur = -8.0, depth = 8
iter = 8563, queue = 13473, heur = -8.0, depth = 9
iter = 8564, queue = 13474, heur = -8.0, depth = 8
iter = 8565, queue = 13476, heur = -8.0, depth = 8
iter = 8566, queue = 13479, heur = -8.0, depth = 8
iter = 8567, queue = 13478, heur = -8.0, depth = 8
iter = 8568, queue = 13481, heur = -8.0, depth = 8
iter = 8569, queue = 13481, heur = -8.0, depth = 8
iter = 8570, queue = 13482, heur = -8.0, depth = 8
iter = 8571, queue = 13484, heur = -8.0, depth = 8
iter = 8572, queue = 13485, heur = -8.0, depth = 8
iter = 8573, queue = 13488, heur = -8.0, depth = 8
iter = 8574, queue = 13490, heur = -8.0, depth = 8
iter = 8575, queue = 13493, heur = -8.0, depth = 8
iter = 8576, queue = 13492, heur = -8.0, depth = 8
iter = 8577, queue = 13493, heur = -8.0, depth = 8
iter = 8578, queue = 13493, heur = -8.0, depth = 8
iter = 8579, queue = 13494, heur = -8.0, depth = 8
iter = 8580, queue = 13495, heur = -8.0, depth = 8
iter = 8581, queue = 13496, heur = -8.0, depth = 8
iter = 8582, queue = 13497, heur = -8.0, depth = 8
iter = 8583, queue = 13498, heur = -8.0, depth = 8
iter = 8584, queue = 13499, heur = -8.0, depth = 8
iter = 8585, queue = 13500, heur = -8.0, depth = 8
iter = 8586, queue = 13501, heur = -8.0, depth = 8
iter = 8587, queue = 13504, heur = -8.0, depth = 8
iter = 8588, queue = 13506, heur = -8.0, depth = 8
iter = 8589, queue = 13509, heur = -8.0, depth = 8
iter = 8590, queue = 13511, heur = -8.0, depth = 8
iter = 8591, queue = 13512, heur = -8.0, depth = 8
iter = 8592, queue = 13514, heur = -8.0, depth = 8
iter = 8593, queue = 13516, heur = -8.0, depth = 8
iter = 8594, queue = 13519, heur = -8.0, depth = 8
iter = 8595, queue = 13519, heur = -8.0, depth = 8
iter = 8596, queue = 13520, heur = -8.0, depth = 8
iter = 8597, queue = 13522, heur = -8.0, depth = 8
iter = 8598, queue = 13523, heur = -8.0, depth = 8
iter = 8599, queue = 13524, heur = -8.0, depth = 8
iter = 8600, queue = 13527, heur = -8.0, depth = 9
iter = 8601, queue = 13528, heur = -8.0, depth = 8
iter = 8602, queue = 13529, heur = -8.0, depth = 8
iter = 8603, queue = 13531, heur = -8.0, depth = 8
iter = 8604, queue = 13532, heur = -8.0, depth = 9
iter = 8605, queue = 13535, heur = -8.0, depth = 8
iter = 8606, queue = 13534, heur = -8.0, depth = 8
iter = 8607, queue = 13537, heur = -8.0, depth = 8
iter = 8608, queue = 13539, heur = -8.0, depth = 9
iter = 8609, queue = 13538, heur = -8.0, depth = 9
iter = 8610, queue = 13539, heur = -8.0, depth = 8
iter = 8611, queue = 13540, heur = -8.0, depth = 8
iter = 8612, queue = 13540, heur = -8.0, depth = 8
```

```
iter = 8613, queue = 13540, heur = -8.0, depth = 8
iter = 8614, queue = 13541, heur = -8.0, depth = 8
iter = 8615, queue = 13542, heur = -8.0, depth = 8
iter = 8616, queue = 13543, heur = -8.0, depth = 8
iter = 8617, queue = 13544, heur = -8.0, depth = 8
iter = 8618, queue = 13546, heur = -8.0, depth = 8
iter = 8619, queue = 13547, heur = -8.0, depth = 8
iter = 8620, queue = 13549, heur = -8.0, depth = 8
iter = 8621, queue = 13549, heur = -8.0, depth = 8
iter = 8622, queue = 13551, heur = -8.0, depth = 9
iter = 8623, queue = 13551, heur = -8.0, depth = 8
iter = 8624, queue = 13552, heur = -8.0, depth = 8
iter = 8625, queue = 13552, heur = -8.0, depth = 10
iter = 8626, queue = 13553, heur = -8.0, depth = 8
iter = 8627, queue = 13555, heur = -8.0, depth = 8
iter = 8628, queue = 13556, heur = -8.0, depth = 8
iter = 8629, queue = 13557, heur = -8.0, depth = 8
iter = 8630, queue = 13560, heur = -8.0, depth = 8
iter = 8631, queue = 13561, heur = -8.0, depth = 8
iter = 8632, queue = 13560, heur = -8.0, depth = 10
iter = 8633, queue = 13562, heur = -8.0, depth = 8
iter = 8634, queue = 13563, heur = -8.0, depth = 8
iter = 8635, queue = 13564, heur = -8.0, depth = 8
iter = 8636, queue = 13567, heur = -8.0, depth = 8
iter = 8637, queue = 13570, heur = -8.0, depth = 8
iter = 8638, queue = 13573, heur = -8.0, depth = 9
iter = 8639, queue = 13574, heur = -8.0, depth = 8
iter = 8640, queue = 13577, heur = -8.0, depth = 8
iter = 8641, queue = 13580, heur = -8.0, depth = 8
iter = 8642, queue = 13581, heur = -8.0, depth = 8
iter = 8643, queue = 13582, heur = -8.0, depth = 8
iter = 8644, queue = 13583, heur = -8.0, depth = 8
iter = 8645, queue = 13585, heur = -8.0, depth = 8
iter = 8646, queue = 13586, heur = -8.0, depth = 9
iter = 8647, queue = 13589, heur = -8.0, depth = 8
iter = 8648, queue = 13590, heur = -8.0, depth = 8
iter = 8649, queue = 13593, heur = -8.0, depth = 8
iter = 8650, queue = 13596, heur = -8.0, depth = 8
iter = 8651, queue = 13595, heur = -8.0, depth = 8
iter = 8652, queue = 13595, heur = -8.0, depth = 8
iter = 8653, queue = 13595, heur = -8.0, depth = 8
iter = 8654, queue = 13598, heur = -8.0, depth = 8
iter = 8655, queue = 13599, heur = -8.0, depth = 9
iter = 8656, queue = 13600, heur = -8.0, depth = 8
iter = 8657, queue = 13602, heur = -8.0, depth = 8
iter = 8658, queue = 13602, heur = -8.0, depth = 9
iter = 8659, queue = 13605, heur = -8.0, depth = 8
iter = 8660, queue = 13606, heur = -8.0, depth = 8
iter = 8661, queue = 13608, heur = -8.0, depth = 8
iter = 8662, queue = 13609, heur = -8.0, depth = 8
iter = 8663, queue = 13611, heur = -8.0, depth = 9
iter = 8664, queue = 13612, heur = -8.0, depth = 8
iter = 8665, queue = 13615, heur = -8.0, depth = 8
iter = 8666, queue = 13616, heur = -8.0, depth = 8
iter = 8667, queue = 13619, heur = -8.0, depth = 8
iter = 8668, queue = 13618, heur = -8.0, depth = 8
iter = 8669, queue = 13620, heur = -8.0, depth = 8
iter = 8670, queue = 13620, heur = -8.0, depth = 8
iter = 8671, queue = 13621, heur = -8.0, depth = 8
```

```
iter = 8672, queue = 13621, heur = -8.0, depth = 8
iter = 8673, queue = 13623, heur = -8.0, depth = 8
iter = 8674, queue = 13623, heur = -8.0, depth = 9
iter = 8675, queue = 13624, heur = -8.0, depth = 8
iter = 8676, queue = 13627, heur = -8.0, depth = 8
iter = 8677, queue = 13628, heur = -8.0, depth = 8
iter = 8678, queue = 13629, heur = -8.0, depth = 8
iter = 8679, queue = 13630, heur = -8.0, depth = 8
iter = 8680, queue = 13631, heur = -8.0, depth = 8
iter = 8681, queue = 13634, heur = -8.0, depth = 9
iter = 8682, queue = 13635, heur = -8.0, depth = 8
iter = 8683, queue = 13634, heur = -8.0, depth = 8
iter = 8684, queue = 13633, heur = -8.0, depth = 8
iter = 8685, queue = 13632, heur = -8.0, depth = 8
iter = 8686, queue = 13633, heur = -8.0, depth = 8
iter = 8687, queue = 13632, heur = -8.0, depth = 8
iter = 8688, queue = 13635, heur = -8.0, depth = 8
iter = 8689, queue = 13636, heur = -8.0, depth = 8
iter = 8690, queue = 13637, heur = -8.0, depth = 8
iter = 8691, queue = 13639, heur = -8.0, depth = 8
iter = 8692, queue = 13638, heur = -8.0, depth = 8
iter = 8693, queue = 13639, heur = -8.0, depth = 8
iter = 8694, queue = 13639, heur = -8.0, depth = 8
iter = 8695, queue = 13641, heur = -8.0, depth = 8
iter = 8696, queue = 13641, heur = -8.0, depth = 8
iter = 8697, queue = 13644, heur = -8.0, depth = 8
iter = 8698, queue = 13645, heur = -8.0, depth = 8
iter = 8699, queue = 13647, heur = -8.0, depth = 8
iter = 8700, queue = 13648, heur = -8.0, depth = 9
iter = 8701, queue = 13651, heur = -8.0, depth = 8
iter = 8702, queue = 13652, heur = -8.0, depth = 8
iter = 8703, queue = 13653, heur = -8.0, depth = 8
iter = 8704, queue = 13654, heur = -8.0, depth = 8
iter = 8705, queue = 13657, heur = -8.0, depth = 8
iter = 8706, queue = 13658, heur = -8.0, depth = 8
iter = 8707, queue = 13659, heur = -8.0, depth = 8
iter = 8708, queue = 13660, heur = -8.0, depth = 8
iter = 8709, queue = 13662, heur = -8.0, depth = 8
iter = 8710, queue = 13663, heur = -8.0, depth = 8
iter = 8711, queue = 13664, heur = -8.0, depth = 8
iter = 8712, queue = 13667, heur = -8.0, depth = 8
iter = 8713, queue = 13670, heur = -8.0, depth = 8
iter = 8714, queue = 13671, heur = -8.0, depth = 8
iter = 8715, queue = 13672, heur = -8.0, depth = 8
iter = 8716, queue = 13674, heur = -8.0, depth = 8
iter = 8717, queue = 13676, heur = -8.0, depth = 8
iter = 8718, queue = 13675, heur = -8.0, depth = 8
iter = 8719, queue = 13676, heur = -8.0, depth = 8
iter = 8720, queue = 13675, heur = -8.0, depth = 9
iter = 8721, queue = 13675, heur = -8.0, depth = 8
iter = 8722, queue = 13675, heur = -8.0, depth = 8
iter = 8723, queue = 13676, heur = -8.0, depth = 8
iter = 8724, queue = 13678, heur = -8.0, depth = 8
iter = 8725, queue = 13679, heur = -8.0, depth = 8
iter = 8726, queue = 13680, heur = -8.0, depth = 8
iter = 8727, queue = 13681, heur = -8.0, depth = 8
iter = 8728, queue = 13680, heur = -8.0, depth = 8
iter = 8729, queue = 13683, heur = -8.0, depth = 8
iter = 8730, queue = 13684, heur = -8.0, depth = 8
```

```
iter = 8731, queue = 13685, heur = -8.0, depth = 8
iter = 8732, queue = 13688, heur = -8.0, depth = 8
iter = 8733, queue = 13689, heur = -8.0, depth = 8
iter = 8734, queue = 13692, heur = -8.0, depth = 8
iter = 8735, queue = 13693, heur = -8.0, depth = 8
iter = 8736, queue = 13694, heur = -8.0, depth = 8
iter = 8737, queue = 13697, heur = -8.0, depth = 8
iter = 8738, queue = 13699, heur = -8.0, depth = 8
iter = 8739, queue = 13698, heur = -8.0, depth = 8
iter = 8740, queue = 13699, heur = -8.0, depth = 8
iter = 8741, queue = 13702, heur = -8.0, depth = 8
iter = 8742, queue = 13705, heur = -8.0, depth = 8
iter = 8743, queue = 13706, heur = -8.0, depth = 8
iter = 8744, queue = 13707, heur = -8.0, depth = 8
iter = 8745, queue = 13708, heur = -8.0, depth = 8
iter = 8746, queue = 13709, heur = -8.0, depth = 8
iter = 8747, queue = 13712, heur = -8.0, depth = 8
iter = 8748, queue = 13713, heur = -8.0, depth = 8
iter = 8749, queue = 13714, heur = -8.0, depth = 8
iter = 8750, queue = 13713, heur = -8.0, depth = 8
iter = 8751, queue = 13715, heur = -8.0, depth = 8
iter = 8752, queue = 13717, heur = -8.0, depth = 8
iter = 8753, queue = 13718, heur = -8.0, depth = 8
iter = 8754, queue = 13719, heur = -8.0, depth = 9
iter = 8755, queue = 13721, heur = -8.0, depth = 8
iter = 8756, queue = 13724, heur = -8.0, depth = 8
iter = 8757, queue = 13727, heur = -8.0, depth = 8
iter = 8758, queue = 13728, heur = -8.0, depth = 8
iter = 8759, queue = 13729, heur = -8.0, depth = 8
iter = 8760, queue = 13732, heur = -8.0, depth = 8
iter = 8761, queue = 13733, heur = -8.0, depth = 8
iter = 8762, queue = 13733, heur = -8.0, depth = 8
iter = 8763, queue = 13734, heur = -8.0, depth = 8
iter = 8764, queue = 13735, heur = -8.0, depth = 8
iter = 8765, queue = 13738, heur = -8.0, depth = 8
iter = 8766, queue = 13739, heur = -8.0, depth = 8
iter = 8767, queue = 13740, heur = -8.0, depth = 8
iter = 8768, queue = 13741, heur = -8.0, depth = 8
iter = 8769, queue = 13743, heur = -8.0, depth = 8
iter = 8770, queue = 13742, heur = -8.0, depth = 8
iter = 8771, queue = 13743, heur = -8.0, depth = 8
iter = 8772, queue = 13742, heur = -8.0, depth = 8
iter = 8773, queue = 13741, heur = -8.0, depth = 8
iter = 8774, queue = 13743, heur = -8.0, depth = 8
iter = 8775, queue = 13744, heur = -8.0, depth = 8
iter = 8776, queue = 13744, heur = -8.0, depth = 8
iter = 8777, queue = 13745, heur = -8.0, depth = 8
iter = 8778, queue = 13747, heur = -8.0, depth = 8
iter = 8779, queue = 13749, heur = -8.0, depth = 8
iter = 8780, queue = 13752, heur = -8.0, depth = 11
iter = 8781, queue = 13753, heur = -8.0, depth = 9
iter = 8782, queue = 13756, heur = -8.0, depth = 8
iter = 8783, queue = 13758, heur = -8.0, depth = 8
iter = 8784, queue = 13759, heur = -8.0, depth = 8
iter = 8785, queue = 13762, heur = -8.0, depth = 8
iter = 8786, queue = 13765, heur = -8.0, depth = 8
iter = 8787, queue = 13768, heur = -8.0, depth = 8
iter = 8788, queue = 13771, heur = -8.0, depth = 9
iter = 8789, queue = 13770, heur = -8.0, depth = 8
```

```
iter = 8790, queue = 13773, heur = -8.0, depth = 8
iter = 8791, queue = 13774, heur = -8.0, depth = 8
iter = 8792, queue = 13774, heur = -8.0, depth = 8
iter = 8793, queue = 13773, heur = -8.0, depth = 8
iter = 8794, queue = 13775, heur = -8.0, depth = 8
iter = 8795, queue = 13776, heur = -8.0, depth = 8
iter = 8796, queue = 13776, heur = -8.0, depth = 9
iter = 8797, queue = 13779, heur = -8.0, depth = 8
iter = 8798, queue = 13779, heur = -8.0, depth = 8
iter = 8799, queue = 13780, heur = -8.0, depth = 8
iter = 8800, queue = 13780, heur = -8.0, depth = 8
iter = 8801, queue = 13781, heur = -8.0, depth = 8
iter = 8802, queue = 13783, heur = -8.0, depth = 8
iter = 8803, queue = 13784, heur = -8.0, depth = 8
iter = 8804, queue = 13784, heur = -8.0, depth = 8
iter = 8805, queue = 13784, heur = -8.0, depth = 8
iter = 8806, queue = 13787, heur = -8.0, depth = 8
iter = 8807, queue = 13789, heur = -8.0, depth = 8
iter = 8808, queue = 13789, heur = -8.0, depth = 9
iter = 8809, queue = 13790, heur = -8.0, depth = 8
iter = 8810, queue = 13791, heur = -8.0, depth = 10
iter = 8811, queue = 13792, heur = -8.0, depth = 8
iter = 8812, queue = 13793, heur = -8.0, depth = 8
iter = 8813, queue = 13794, heur = -8.0, depth = 8
iter = 8814, queue = 13795, heur = -8.0, depth = 8
iter = 8815, queue = 13796, heur = -8.0, depth = 8
iter = 8816, queue = 13796, heur = -8.0, depth = 8
iter = 8817, queue = 13799, heur = -8.0, depth = 10
iter = 8818, queue = 13800, heur = -8.0, depth = 8
iter = 8819, queue = 13801, heur = -8.0, depth = 8
iter = 8820, queue = 13800, heur = -8.0, depth = 8
iter = 8821, queue = 13799, heur = -8.0, depth = 8
iter = 8822, queue = 13800, heur = -8.0, depth = 8
iter = 8823, queue = 13801, heur = -8.0, depth = 8
iter = 8824, queue = 13802, heur = -8.0, depth = 8
iter = 8825, queue = 13802, heur = -8.0, depth = 8
iter = 8826, queue = 13803, heur = -8.0, depth = 8
iter = 8827, queue = 13802, heur = -8.0, depth = 8
iter = 8828, queue = 13805, heur = -8.0, depth = 8
iter = 8829, queue = 13808, heur = -8.0, depth = 8
iter = 8830, queue = 13809, heur = -8.0, depth = 8
iter = 8831, queue = 13812, heur = -8.0, depth = 8
iter = 8832, queue = 13815, heur = -8.0, depth = 8
iter = 8833, queue = 13818, heur = -8.0, depth = 8
iter = 8834, queue = 13818, heur = -8.0, depth = 8
iter = 8835, queue = 13819, heur = -8.0, depth = 11
iter = 8836, queue = 13820, heur = -8.0, depth = 8
iter = 8837, queue = 13823, heur = -8.0, depth = 8
iter = 8838, queue = 13826, heur = -8.0, depth = 8
iter = 8839, queue = 13826, heur = -8.0, depth = 8
iter = 8840, queue = 13829, heur = -8.0, depth = 8
iter = 8841, queue = 13830, heur = -8.0, depth = 8
iter = 8842, queue = 13831, heur = -8.0, depth = 8
iter = 8843, queue = 13832, heur = -8.0, depth = 8
iter = 8844, queue = 13834, heur = -8.0, depth = 8
iter = 8845, queue = 13835, heur = -8.0, depth = 8
iter = 8846, queue = 13838, heur = -8.0, depth = 8
iter = 8847, queue = 13839, heur = -8.0, depth = 8
iter = 8848, queue = 13840, heur = -8.0, depth = 8
```

```
iter = 8849, queue = 13843, heur = -8.0, depth = 8
iter = 8850, queue = 13845, heur = -8.0, depth = 8
iter = 8851, queue = 13846, heur = -8.0, depth = 8
iter = 8852, queue = 13847, heur = -8.0, depth = 8
iter = 8853, queue = 13848, heur = -8.0, depth = 8
iter = 8854, queue = 13848, heur = -8.0, depth = 9
iter = 8855, queue = 13851, heur = -8.0, depth = 8
iter = 8856, queue = 13853, heur = -8.0, depth = 8
iter = 8857, queue = 13854, heur = -8.0, depth = 8
iter = 8858, queue = 13856, heur = -8.0, depth = 8
iter = 8859, queue = 13857, heur = -8.0, depth = 9
iter = 8860, queue = 13856, heur = -8.0, depth = 8
iter = 8861, queue = 13856, heur = -8.0, depth = 8
iter = 8862, queue = 13858, heur = -8.0, depth = 8
iter = 8863, queue = 13859, heur = -8.0, depth = 9
iter = 8864, queue = 13860, heur = -8.0, depth = 8
iter = 8865, queue = 13861, heur = -8.0, depth = 8
iter = 8866, queue = 13860, heur = -8.0, depth = 8
iter = 8867, queue = 13861, heur = -8.0, depth = 8
iter = 8868, queue = 13862, heur = -8.0, depth = 8
iter = 8869, queue = 13862, heur = -8.0, depth = 8
iter = 8870, queue = 13863, heur = -8.0, depth = 8
iter = 8871, queue = 13865, heur = -8.0, depth = 8
iter = 8872, queue = 13866, heur = -8.0, depth = 8
iter = 8873, queue = 13867, heur = -8.0, depth = 8
iter = 8874, queue = 13870, heur = -8.0, depth = 8
iter = 8875, queue = 13871, heur = -8.0, depth = 8
iter = 8876, queue = 13874, heur = -8.0, depth = 9
iter = 8877, queue = 13875, heur = -8.0, depth = 8
iter = 8878, queue = 13878, heur = -8.0, depth = 8
iter = 8879, queue = 13879, heur = -8.0, depth = 8
iter = 8880, queue = 13879, heur = -8.0, depth = 8
iter = 8881, queue = 13881, heur = -8.0, depth = 8
iter = 8882, queue = 13882, heur = -8.0, depth = 8
iter = 8883, queue = 13883, heur = -8.0, depth = 8
iter = 8884, queue = 13884, heur = -8.0, depth = 8
iter = 8885, queue = 13883, heur = -8.0, depth = 9
iter = 8886, queue = 13885, heur = -8.0, depth = 8
iter = 8887, queue = 13886, heur = -8.0, depth = 9
iter = 8888, queue = 13887, heur = -8.0, depth = 8
iter = 8889, queue = 13888, heur = -8.0, depth = 8
iter = 8890, queue = 13889, heur = -8.0, depth = 8
iter = 8891, queue = 13891, heur = -8.0, depth = 8
iter = 8892, queue = 13892, heur = -8.0, depth = 8
iter = 8893, queue = 13892, heur = -8.0, depth = 8
iter = 8894, queue = 13895, heur = -8.0, depth = 8
iter = 8895, queue = 13894, heur = -8.0, depth = 8
iter = 8896, queue = 13896, heur = -8.0, depth = 8
iter = 8897, queue = 13896, heur = -8.0, depth = 8
iter = 8898, queue = 13896, heur = -8.0, depth = 8
iter = 8899, queue = 13895, heur = -8.0, depth = 8
iter = 8900, queue = 13895, heur = -8.0, depth = 8
iter = 8901, queue = 13896, heur = -8.0, depth = 8
iter = 8902, queue = 13895, heur = -8.0, depth = 8
iter = 8903, queue = 13894, heur = -8.0, depth = 8
iter = 8904, queue = 13894, heur = -8.0, depth = 8
iter = 8905, queue = 13894, heur = -8.0, depth = 8
iter = 8906, queue = 13896, heur = -8.0, depth = 8
iter = 8907, queue = 13895, heur = -8.0, depth = 8
```

```
iter = 8908, queue = 13894, heur = -8.0, depth = 8
iter = 8909, queue = 13894, heur = -8.0, depth = 9
iter = 8910, queue = 13895, heur = -8.0, depth = 8
iter = 8911, queue = 13897, heur = -8.0, depth = 8
iter = 8912, queue = 13898, heur = -8.0, depth = 8
iter = 8913, queue = 13898, heur = -8.0, depth = 9
iter = 8914, queue = 13901, heur = -8.0, depth = 8
iter = 8915, queue = 13902, heur = -8.0, depth = 8
iter = 8916, queue = 13902, heur = -8.0, depth = 8
iter = 8917, queue = 13904, heur = -8.0, depth = 8
iter = 8918, queue = 13903, heur = -8.0, depth = 8
iter = 8919, queue = 13904, heur = -8.0, depth = 8
iter = 8920, queue = 13906, heur = -8.0, depth = 8
iter = 8921, queue = 13909, heur = -8.0, depth = 8
iter = 8922, queue = 13910, heur = -8.0, depth = 8
iter = 8923, queue = 13911, heur = -8.0, depth = 8
iter = 8924, queue = 13912, heur = -8.0, depth = 8
iter = 8925, queue = 13914, heur = -8.0, depth = 8
iter = 8926, queue = 13915, heur = -8.0, depth = 8
iter = 8927, queue = 13916, heur = -8.0, depth = 8
iter = 8928, queue = 13918, heur = -8.0, depth = 8
iter = 8929, queue = 13920, heur = -8.0, depth = 8
iter = 8930, queue = 13921, heur = -8.0, depth = 8
iter = 8931, queue = 13921, heur = -8.0, depth = 8
iter = 8932, queue = 13921, heur = -8.0, depth = 8
iter = 8933, queue = 13922, heur = -8.0, depth = 8
iter = 8934, queue = 13925, heur = -8.0, depth = 8
iter = 8935, queue = 13925, heur = -8.0, depth = 8
iter = 8936, queue = 13926, heur = -8.0, depth = 9
iter = 8937, queue = 13926, heur = -8.0, depth = 8
iter = 8938, queue = 13925, heur = -8.0, depth = 8
iter = 8939, queue = 13926, heur = -8.0, depth = 8
iter = 8940, queue = 13927, heur = -8.0, depth = 8
iter = 8941, queue = 13929, heur = -8.0, depth = 8
iter = 8942, queue = 13930, heur = -8.0, depth = 8
iter = 8943, queue = 13931, heur = -8.0, depth = 9
iter = 8944, queue = 13933, heur = -8.0, depth = 8
iter = 8945, queue = 13933, heur = -8.0, depth = 8
iter = 8946, queue = 13934, heur = -8.0, depth = 8
iter = 8947, queue = 13933, heur = -8.0, depth = 8
iter = 8948, queue = 13934, heur = -8.0, depth = 8
iter = 8949, queue = 13935, heur = -8.0, depth = 8
iter = 8950, queue = 13934, heur = -8.0, depth = 8
iter = 8951, queue = 13935, heur = -8.0, depth = 8
iter = 8952, queue = 13934, heur = -8.0, depth = 8
iter = 8953, queue = 13936, heur = -8.0, depth = 9
iter = 8954, queue = 13936, heur = -8.0, depth = 8
iter = 8955, queue = 13938, heur = -8.0, depth = 8
iter = 8956, queue = 13939, heur = -8.0, depth = 8
iter = 8957, queue = 13940, heur = -8.0, depth = 8
iter = 8958, queue = 13941, heur = -8.0, depth = 8
iter = 8959, queue = 13943, heur = -8.0, depth = 8
iter = 8960, queue = 13945, heur = -8.0, depth = 8
iter = 8961, queue = 13946, heur = -8.0, depth = 8
iter = 8962, queue = 13945, heur = -8.0, depth = 8
iter = 8963, queue = 13946, heur = -8.0, depth = 8
iter = 8964, queue = 13947, heur = -8.0, depth = 13
iter = 8965, queue = 13948, heur = -8.0, depth = 9
iter = 8966, queue = 13948, heur = -8.0, depth = 8
```

```
iter = 8967, queue = 13951, heur = -8.0, depth = 8
iter = 8968, queue = 13952, heur = -8.0, depth = 8
iter = 8969, queue = 13953, heur = -8.0, depth = 8
iter = 8970, queue = 13952, heur = -8.0, depth = 8
iter = 8971, queue = 13953, heur = -8.0, depth = 8
iter = 8972, queue = 13956, heur = -8.0, depth = 9
iter = 8973, queue = 13956, heur = -8.0, depth = 8
iter = 8974, queue = 13957, heur = -8.0, depth = 8
iter = 8975, queue = 13958, heur = -8.0, depth = 8
iter = 8976, queue = 13961, heur = -8.0, depth = 9
iter = 8977, queue = 13963, heur = -8.0, depth = 8
iter = 8978, queue = 13964, heur = -8.0, depth = 8
iter = 8979, queue = 13967, heur = -8.0, depth = 8
iter = 8980, queue = 13969, heur = -8.0, depth = 8
iter = 8981, queue = 13972, heur = -8.0, depth = 8
iter = 8982, queue = 13973, heur = -8.0, depth = 8
iter = 8983, queue = 13974, heur = -8.0, depth = 8
iter = 8984, queue = 13977, heur = -8.0, depth = 8
iter = 8985, queue = 13977, heur = -8.0, depth = 9
iter = 8986, queue = 13978, heur = -8.0, depth = 8
iter = 8987, queue = 13980, heur = -8.0, depth = 8
iter = 8988, queue = 13980, heur = -8.0, depth = 8
iter = 8989, queue = 13980, heur = -8.0, depth = 8
iter = 8990, queue = 13981, heur = -8.0, depth = 8
iter = 8991, queue = 13980, heur = -8.0, depth = 8
iter = 8992, queue = 13981, heur = -8.0, depth = 8
iter = 8993, queue = 13982, heur = -8.0, depth = 8
iter = 8994, queue = 13983, heur = -8.0, depth = 8
iter = 8995, queue = 13983, heur = -8.0, depth = 8
iter = 8996, queue = 13984, heur = -8.0, depth = 8
iter = 8997, queue = 13986, heur = -8.0, depth = 8
iter = 8998, queue = 13985, heur = -8.0, depth = 8
iter = 8999, queue = 13986, heur = -8.0, depth = 8
iter = 9000, queue = 13987, heur = -8.0, depth = 8
iter = 9001, queue = 13986, heur = -8.0, depth = 8
iter = 9002, queue = 13988, heur = -8.0, depth = 9
iter = 9003, queue = 13989, heur = -8.0, depth = 8
iter = 9004, queue = 13990, heur = -8.0, depth = 8
iter = 9005, queue = 13991, heur = -8.0, depth = 8
iter = 9006, queue = 13992, heur = -8.0, depth = 8
iter = 9007, queue = 13991, heur = -8.0, depth = 8
iter = 9008, queue = 13992, heur = -8.0, depth = 8
iter = 9009, queue = 13993, heur = -8.0, depth = 8
iter = 9010, queue = 13996, heur = -8.0, depth = 8
iter = 9011, queue = 13997, heur = -8.0, depth = 8
iter = 9012, queue = 13998, heur = -8.0, depth = 8
iter = 9013, queue = 14000, heur = -8.0, depth = 9
iter = 9014, queue = 14001, heur = -8.0, depth = 8
iter = 9015, queue = 14002, heur = -8.0, depth = 8
iter = 9016, queue = 14004, heur = -8.0, depth = 8
iter = 9017, queue = 14004, heur = -8.0, depth = 8
iter = 9018, queue = 14003, heur = -8.0, depth = 8
iter = 9019, queue = 14004, heur = -8.0, depth = 8
iter = 9020, queue = 14005, heur = -8.0, depth = 8
iter = 9021, queue = 14008, heur = -8.0, depth = 8
iter = 9022, queue = 14010, heur = -8.0, depth = 8
iter = 9023, queue = 14010, heur = -8.0, depth = 8
iter = 9024, queue = 14011, heur = -8.0, depth = 8
iter = 9025, queue = 14010, heur = -8.0, depth = 8
```

```
iter = 9026, queue = 14010, heur = -8.0, depth = 8
iter = 9027, queue = 14011, heur = -8.0, depth = 8
iter = 9028, queue = 14012, heur = -8.0, depth = 8
iter = 9029, queue = 14015, heur = -8.0, depth = 8
iter = 9030, queue = 14014, heur = -8.0, depth = 8
iter = 9031, queue = 14017, heur = -8.0, depth = 8
iter = 9032, queue = 14017, heur = -8.0, depth = 8
iter = 9033, queue = 14016, heur = -8.0, depth = 8
iter = 9034, queue = 14015, heur = -8.0, depth = 8
iter = 9035, queue = 14016, heur = -8.0, depth = 8
iter = 9036, queue = 14015, heur = -8.0, depth = 8
iter = 9037, queue = 14017, heur = -8.0, depth = 8
iter = 9038, queue = 14017, heur = -8.0, depth = 8
iter = 9039, queue = 14018, heur = -8.0, depth = 8
iter = 9040, queue = 14019, heur = -8.0, depth = 8
iter = 9041, queue = 14018, heur = -8.0, depth = 8
iter = 9042, queue = 14019, heur = -8.0, depth = 8
iter = 9043, queue = 14020, heur = -8.0, depth = 8
iter = 9044, queue = 14019, heur = -8.0, depth = 8
iter = 9045, queue = 14018, heur = -8.0, depth = 8
iter = 9046, queue = 14019, heur = -8.0, depth = 8
iter = 9047, queue = 14018, heur = -8.0, depth = 9
iter = 9048, queue = 14020, heur = -8.0, depth = 8
iter = 9049, queue = 14021, heur = -8.0, depth = 8
iter = 9050, queue = 14024, heur = -8.0, depth = 8
iter = 9051, queue = 14026, heur = -8.0, depth = 9
iter = 9052, queue = 14027, heur = -8.0, depth = 8
iter = 9053, queue = 14030, heur = -8.0, depth = 8
iter = 9054, queue = 14033, heur = -8.0, depth = 8
iter = 9055, queue = 14034, heur = -8.0, depth = 8
iter = 9056, queue = 14035, heur = -8.0, depth = 8
iter = 9057, queue = 14035, heur = -8.0, depth = 8
iter = 9058, queue = 14035, heur = -8.0, depth = 8
iter = 9059, queue = 14037, heur = -8.0, depth = 8
iter = 9060, queue = 14039, heur = -8.0, depth = 8
iter = 9061, queue = 14039, heur = -8.0, depth = 8
iter = 9062, queue = 14041, heur = -8.0, depth = 8
iter = 9063, queue = 14044, heur = -8.0, depth = 8
iter = 9064, queue = 14046, heur = -8.0, depth = 8
iter = 9065, queue = 14046, heur = -8.0, depth = 8
iter = 9066, queue = 14047, heur = -8.0, depth = 8
iter = 9067, queue = 14048, heur = -8.0, depth = 8
iter = 9068, queue = 14047, heur = -8.0, depth = 8
iter = 9069, queue = 14048, heur = -8.0, depth = 8
iter = 9070, queue = 14048, heur = -8.0, depth = 8
iter = 9071, queue = 14050, heur = -8.0, depth = 8
iter = 9072, queue = 14052, heur = -8.0, depth = 8
iter = 9073, queue = 14053, heur = -8.0, depth = 9
iter = 9074, queue = 14055, heur = -8.0, depth = 8
iter = 9075, queue = 14056, heur = -8.0, depth = 10
iter = 9076, queue = 14058, heur = -8.0, depth = 8
iter = 9077, queue = 14059, heur = -8.0, depth = 8
iter = 9078, queue = 14061, heur = -8.0, depth = 8
iter = 9079, queue = 14062, heur = -8.0, depth = 8
iter = 9080, queue = 14063, heur = -8.0, depth = 8
iter = 9081, queue = 14063, heur = -8.0, depth = 8
iter = 9082, queue = 14065, heur = -8.0, depth = 8
iter = 9083, queue = 14066, heur = -8.0, depth = 8
iter = 9084, queue = 14069, heur = -8.0, depth = 8
```

```
iter = 9085, queue = 14070, heur = -8.0, depth = 8
iter = 9086, queue = 14073, heur = -8.0, depth = 8
iter = 9087, queue = 14075, heur = -8.0, depth = 8
iter = 9088, queue = 14078, heur = -8.0, depth = 8
iter = 9089, queue = 14077, heur = -8.0, depth = 8
iter = 9090, queue = 14080, heur = -8.0, depth = 8
iter = 9091, queue = 14081, heur = -8.0, depth = 8
iter = 9092, queue = 14082, heur = -8.0, depth = 8
iter = 9093, queue = 14082, heur = -8.0, depth = 8
iter = 9094, queue = 14085, heur = -8.0, depth = 8
iter = 9095, queue = 14086, heur = -8.0, depth = 8
iter = 9096, queue = 14085, heur = -8.0, depth = 8
iter = 9097, queue = 14086, heur = -8.0, depth = 8
iter = 9098, queue = 14087, heur = -8.0, depth = 8
iter = 9099, queue = 14088, heur = -8.0, depth = 9
iter = 9100, queue = 14089, heur = -8.0, depth = 8
iter = 9101, queue = 14091, heur = -8.0, depth = 8
iter = 9102, queue = 14092, heur = -8.0, depth = 8
iter = 9103, queue = 14095, heur = -8.0, depth = 8
iter = 9104, queue = 14098, heur = -8.0, depth = 10
iter = 9105, queue = 14097, heur = -8.0, depth = 8
iter = 9106, queue = 14098, heur = -8.0, depth = 8
iter = 9107, queue = 14100, heur = -8.0, depth = 10
iter = 9108, queue = 14101, heur = -8.0, depth = 8
iter = 9109, queue = 14102, heur = -8.0, depth = 8
iter = 9110, queue = 14101, heur = -8.0, depth = 10
iter = 9111, queue = 14103, heur = -8.0, depth = 8
iter = 9112, queue = 14104, heur = -8.0, depth = 8
iter = 9113, queue = 14105, heur = -8.0, depth = 8
iter = 9114, queue = 14105, heur = -8.0, depth = 10
iter = 9115, queue = 14106, heur = -8.0, depth = 8
iter = 9116, queue = 14107, heur = -8.0, depth = 8
iter = 9117, queue = 14110, heur = -8.0, depth = 8
iter = 9118, queue = 14109, heur = -8.0, depth = 8
iter = 9119, queue = 14111, heur = -8.0, depth = 8
iter = 9120, queue = 14111, heur = -8.0, depth = 8
iter = 9121, queue = 14114, heur = -8.0, depth = 8
iter = 9122, queue = 14117, heur = -8.0, depth = 8
iter = 9123, queue = 14118, heur = -8.0, depth = 8
iter = 9124, queue = 14119, heur = -8.0, depth = 8
iter = 9125, queue = 14120, heur = -8.0, depth = 10
iter = 9126, queue = 14121, heur = -8.0, depth = 8
iter = 9127, queue = 14124, heur = -8.0, depth = 8
iter = 9128, queue = 14127, heur = -8.0, depth = 8
iter = 9129, queue = 14128, heur = -8.0, depth = 8
iter = 9130, queue = 14127, heur = -8.0, depth = 8
iter = 9131, queue = 14128, heur = -8.0, depth = 8
iter = 9132, queue = 14129, heur = -8.0, depth = 8
iter = 9133, queue = 14129, heur = -8.0, depth = 8
iter = 9134, queue = 14129, heur = -8.0, depth = 8
iter = 9135, queue = 14129, heur = -8.0, depth = 8
iter = 9136, queue = 14129, heur = -8.0, depth = 8
iter = 9137, queue = 14132, heur = -8.0, depth = 8
iter = 9138, queue = 14133, heur = -8.0, depth = 8
iter = 9139, queue = 14136, heur = -8.0, depth = 8
iter = 9140, queue = 14137, heur = -8.0, depth = 8
iter = 9141, queue = 14139, heur = -8.0, depth = 8
iter = 9142, queue = 14140, heur = -8.0, depth = 8
iter = 9143, queue = 14141, heur = -8.0, depth = 9
```

```
iter = 9144, queue = 14142, heur = -8.0, depth = 8
iter = 9145, queue = 14145, heur = -8.0, depth = 8
iter = 9146, queue = 14147, heur = -8.0, depth = 9
iter = 9147, queue = 14148, heur = -8.0, depth = 8
iter = 9148, queue = 14149, heur = -8.0, depth = 8
iter = 9149, queue = 14151, heur = -8.0, depth = 8
iter = 9150, queue = 14152, heur = -8.0, depth = 8
iter = 9151, queue = 14155, heur = -8.0, depth = 8
iter = 9152, queue = 14156, heur = -8.0, depth = 8
iter = 9153, queue = 14159, heur = -8.0, depth = 8
iter = 9154, queue = 14158, heur = -8.0, depth = 8
iter = 9155, queue = 14158, heur = -8.0, depth = 8
iter = 9156, queue = 14160, heur = -8.0, depth = 8
iter = 9157, queue = 14161, heur = -8.0, depth = 8
iter = 9158, queue = 14163, heur = -8.0, depth = 8
iter = 9159, queue = 14164, heur = -8.0, depth = 8
iter = 9160, queue = 14165, heur = -8.0, depth = 8
iter = 9161, queue = 14166, heur = -8.0, depth = 8
iter = 9162, queue = 14167, heur = -8.0, depth = 8
iter = 9163, queue = 14170, heur = -8.0, depth = 8
iter = 9164, queue = 14171, heur = -8.0, depth = 8
iter = 9165, queue = 14172, heur = -8.0, depth = 8
iter = 9166, queue = 14172, heur = -8.0, depth = 9
iter = 9167, queue = 14173, heur = -8.0, depth = 8
iter = 9168, queue = 14173, heur = -8.0, depth = 8
iter = 9169, queue = 14176, heur = -8.0, depth = 8
iter = 9170, queue = 14178, heur = -8.0, depth = 8
iter = 9171, queue = 14179, heur = -8.0, depth = 8
iter = 9172, queue = 14179, heur = -8.0, depth = 8
iter = 9173, queue = 14180, heur = -8.0, depth = 8
iter = 9174, queue = 14181, heur = -8.0, depth = 8
iter = 9175, queue = 14182, heur = -8.0, depth = 8
iter = 9176, queue = 14184, heur = -8.0, depth = 8
iter = 9177, queue = 14187, heur = -8.0, depth = 8
iter = 9178, queue = 14186, heur = -8.0, depth = 8
iter = 9179, queue = 14187, heur = -8.0, depth = 8
iter = 9180, queue = 14188, heur = -8.0, depth = 8
iter = 9181, queue = 14189, heur = -8.0, depth = 8
iter = 9182, queue = 14192, heur = -8.0, depth = 8
iter = 9183, queue = 14192, heur = -8.0, depth = 8
iter = 9184, queue = 14192, heur = -8.0, depth = 8
iter = 9185, queue = 14194, heur = -8.0, depth = 8
iter = 9186, queue = 14197, heur = -8.0, depth = 8
iter = 9187, queue = 14198, heur = -8.0, depth = 8
iter = 9188, queue = 14199, heur = -8.0, depth = 8
iter = 9189, queue = 14199, heur = -8.0, depth = 8
iter = 9190, queue = 14202, heur = -8.0, depth = 8
iter = 9191, queue = 14202, heur = -8.0, depth = 8
iter = 9192, queue = 14203, heur = -8.0, depth = 8
iter = 9193, queue = 14205, heur = -8.0, depth = 8
iter = 9194, queue = 14206, heur = -8.0, depth = 8
iter = 9195, queue = 14208, heur = -8.0, depth = 8
iter = 9196, queue = 14208, heur = -8.0, depth = 8
iter = 9197, queue = 14209, heur = -8.0, depth = 8
iter = 9198, queue = 14208, heur = -8.0, depth = 8
iter = 9199, queue = 14210, heur = -8.0, depth = 9
iter = 9200, queue = 14211, heur = -8.0, depth = 8
iter = 9201, queue = 14213, heur = -8.0, depth = 8
iter = 9202, queue = 14212, heur = -8.0, depth = 8
```

```
iter = 9203, queue = 14215, heur = -8.0, depth = 8
iter = 9204, queue = 14216, heur = -8.0, depth = 8
iter = 9205, queue = 14217, heur = -8.0, depth = 8
iter = 9206, queue = 14218, heur = -8.0, depth = 8
iter = 9207, queue = 14218, heur = -8.0, depth = 8
iter = 9208, queue = 14221, heur = -8.0, depth = 8
iter = 9209, queue = 14222, heur = -8.0, depth = 8
iter = 9210, queue = 14223, heur = -8.0, depth = 8
iter = 9211, queue = 14226, heur = -8.0, depth = 8
iter = 9212, queue = 14229, heur = -8.0, depth = 8
iter = 9213, queue = 14232, heur = -8.0, depth = 8
iter = 9214, queue = 14233, heur = -8.0, depth = 8
iter = 9215, queue = 14236, heur = -8.0, depth = 8
iter = 9216, queue = 14238, heur = -8.0, depth = 8
iter = 9217, queue = 14238, heur = -8.0, depth = 8
iter = 9218, queue = 14238, heur = -8.0, depth = 8
iter = 9219, queue = 14239, heur = -8.0, depth = 8
iter = 9220, queue = 14240, heur = -8.0, depth = 8
iter = 9221, queue = 14241, heur = -8.0, depth = 8
iter = 9222, queue = 14242, heur = -8.0, depth = 8
iter = 9223, queue = 14241, heur = -8.0, depth = 9
iter = 9224, queue = 14240, heur = -8.0, depth = 8
iter = 9225, queue = 14242, heur = -8.0, depth = 8
iter = 9226, queue = 14243, heur = -8.0, depth = 8
iter = 9227, queue = 14244, heur = -8.0, depth = 9
iter = 9228, queue = 14247, heur = -8.0, depth = 8
iter = 9229, queue = 14246, heur = -8.0, depth = 10
iter = 9230, queue = 14248, heur = -8.0, depth = 8
iter = 9231, queue = 14249, heur = -8.0, depth = 11
iter = 9232, queue = 14250, heur = -8.0, depth = 8
iter = 9233, queue = 14252, heur = -8.0, depth = 12
iter = 9234, queue = 14254, heur = -8.0, depth = 8
iter = 9235, queue = 14255, heur = -8.0, depth = 8
iter = 9236, queue = 14258, heur = -8.0, depth = 8
iter = 9237, queue = 14259, heur = -8.0, depth = 8
iter = 9238, queue = 14260, heur = -8.0, depth = 8
iter = 9239, queue = 14262, heur = -8.0, depth = 8
iter = 9240, queue = 14263, heur = -8.0, depth = 8
iter = 9241, queue = 14266, heur = -8.0, depth = 8
iter = 9242, queue = 14268, heur = -8.0, depth = 8
iter = 9243, queue = 14269, heur = -8.0, depth = 8
iter = 9244, queue = 14271, heur = -8.0, depth = 9
iter = 9245, queue = 14274, heur = -8.0, depth = 8
iter = 9246, queue = 14274, heur = -8.0, depth = 8
iter = 9247, queue = 14275, heur = -8.0, depth = 8
iter = 9248, queue = 14276, heur = -8.0, depth = 8
iter = 9249, queue = 14279, heur = -8.0, depth = 8
iter = 9250, queue = 14280, heur = -8.0, depth = 8
iter = 9251, queue = 14282, heur = -8.0, depth = 8
iter = 9252, queue = 14283, heur = -8.0, depth = 8
iter = 9253, queue = 14282, heur = -8.0, depth = 8
iter = 9254, queue = 14284, heur = -8.0, depth = 8
iter = 9255, queue = 14287, heur = -8.0, depth = 8
iter = 9256, queue = 14290, heur = -8.0, depth = 8
iter = 9257, queue = 14291, heur = -8.0, depth = 8
iter = 9258, queue = 14292, heur = -8.0, depth = 8
iter = 9259, queue = 14294, heur = -8.0, depth = 8
iter = 9260, queue = 14297, heur = -8.0, depth = 8
iter = 9261, queue = 14296, heur = -8.0, depth = 8
```

```
iter = 9262, queue = 14295, heur = -8.0, depth = 8
iter = 9263, queue = 14297, heur = -8.0, depth = 8
iter = 9264, queue = 14299, heur = -8.0, depth = 11
iter = 9265, queue = 14300, heur = -8.0, depth = 8
iter = 9266, queue = 14302, heur = -8.0, depth = 8
iter = 9267, queue = 14303, heur = -8.0, depth = 8
iter = 9268, queue = 14304, heur = -8.0, depth = 8
iter = 9269, queue = 14305, heur = -8.0, depth = 8
iter = 9270, queue = 14306, heur = -8.0, depth = 8
iter = 9271, queue = 14306, heur = -8.0, depth = 8
iter = 9272, queue = 14307, heur = -8.0, depth = 8
iter = 9273, queue = 14307, heur = -8.0, depth = 8
iter = 9274, queue = 14308, heur = -8.0, depth = 8
iter = 9275, queue = 14309, heur = -8.0, depth = 8
iter = 9276, queue = 14310, heur = -8.0, depth = 8
iter = 9277, queue = 14311, heur = -8.0, depth = 8
iter = 9278, queue = 14312, heur = -8.0, depth = 8
iter = 9279, queue = 14315, heur = -8.0, depth = 8
iter = 9280, queue = 14316, heur = -8.0, depth = 8
iter = 9281, queue = 14317, heur = -8.0, depth = 8
iter = 9282, queue = 14320, heur = -8.0, depth = 8
iter = 9283, queue = 14320, heur = -8.0, depth = 8
iter = 9284, queue = 14319, heur = -8.0, depth = 8
iter = 9285, queue = 14320, heur = -8.0, depth = 8
iter = 9286, queue = 14319, heur = -8.0, depth = 9
iter = 9287, queue = 14322, heur = -8.0, depth = 8
iter = 9288, queue = 14321, heur = -8.0, depth = 8
iter = 9289, queue = 14321, heur = -8.0, depth = 8
iter = 9290, queue = 14323, heur = -8.0, depth = 9
iter = 9291, queue = 14323, heur = -8.0, depth = 8
iter = 9292, queue = 14322, heur = -8.0, depth = 8
iter = 9293, queue = 14323, heur = -8.0, depth = 8
iter = 9294, queue = 14324, heur = -8.0, depth = 8
iter = 9295, queue = 14324, heur = -8.0, depth = 8
iter = 9296, queue = 14323, heur = -8.0, depth = 8
iter = 9297, queue = 14323, heur = -8.0, depth = 8
iter = 9298, queue = 14323, heur = -8.0, depth = 8
iter = 9299, queue = 14324, heur = -8.0, depth = 8
iter = 9300, queue = 14325, heur = -8.0, depth = 8
iter = 9301, queue = 14327, heur = -8.0, depth = 8
iter = 9302, queue = 14329, heur = -8.0, depth = 8
iter = 9303, queue = 14330, heur = -8.0, depth = 8
iter = 9304, queue = 14333, heur = -8.0, depth = 8
iter = 9305, queue = 14334, heur = -8.0, depth = 8
iter = 9306, queue = 14335, heur = -8.0, depth = 8
iter = 9307, queue = 14336, heur = -8.0, depth = 8
iter = 9308, queue = 14337, heur = -8.0, depth = 8
iter = 9309, queue = 14340, heur = -8.0, depth = 8
iter = 9310, queue = 14342, heur = -8.0, depth = 8
iter = 9311, queue = 14343, heur = -8.0, depth = 8
iter = 9312, queue = 14344, heur = -8.0, depth = 8
iter = 9313, queue = 14346, heur = -8.0, depth = 8
iter = 9314, queue = 14349, heur = -8.0, depth = 8
iter = 9315, queue = 14350, heur = -8.0, depth = 8
iter = 9316, queue = 14351, heur = -8.0, depth = 8
iter = 9317, queue = 14352, heur = -8.0, depth = 8
iter = 9318, queue = 14353, heur = -8.0, depth = 8
iter = 9319, queue = 14355, heur = -8.0, depth = 8
iter = 9320, queue = 14355, heur = -8.0, depth = 8
```

```
iter = 9321, queue = 14356, heur = -8.0, depth = 8
iter = 9322, queue = 14358, heur = -8.0, depth = 8
iter = 9323, queue = 14359, heur = -8.0, depth = 8
iter = 9324, queue = 14360, heur = -8.0, depth = 8
iter = 9325, queue = 14361, heur = -8.0, depth = 8
iter = 9326, queue = 14363, heur = -8.0, depth = 8
iter = 9327, queue = 14365, heur = -8.0, depth = 8
iter = 9328, queue = 14366, heur = -8.0, depth = 8
iter = 9329, queue = 14367, heur = -8.0, depth = 8
iter = 9330, queue = 14368, heur = -8.0, depth = 8
iter = 9331, queue = 14371, heur = -8.0, depth = 8
iter = 9332, queue = 14370, heur = -8.0, depth = 8
iter = 9333, queue = 14371, heur = -8.0, depth = 8
iter = 9334, queue = 14374, heur = -8.0, depth = 8
iter = 9335, queue = 14375, heur = -8.0, depth = 8
iter = 9336, queue = 14378, heur = -8.0, depth = 8
iter = 9337, queue = 14381, heur = -8.0, depth = 8
iter = 9338, queue = 14381, heur = -8.0, depth = 8
iter = 9339, queue = 14382, heur = -8.0, depth = 9
iter = 9340, queue = 14383, heur = -8.0, depth = 8
iter = 9341, queue = 14382, heur = -8.0, depth = 8
iter = 9342, queue = 14385, heur = -8.0, depth = 8
iter = 9343, queue = 14386, heur = -8.0, depth = 9
iter = 9344, queue = 14389, heur = -8.0, depth = 9
iter = 9345, queue = 14392, heur = -8.0, depth = 10
iter = 9346, queue = 14395, heur = -8.0, depth = 10
iter = 9347, queue = 14398, heur = -8.0, depth = 8
iter = 9348, queue = 14399, heur = -8.0, depth = 8
iter = 9349, queue = 14398, heur = -8.0, depth = 9
iter = 9350, queue = 14399, heur = -8.0, depth = 8
iter = 9351, queue = 14402, heur = -8.0, depth = 8
iter = 9352, queue = 14401, heur = -8.0, depth = 8
iter = 9353, queue = 14402, heur = -8.0, depth = 9
iter = 9354, queue = 14403, heur = -8.0, depth = 8
iter = 9355, queue = 14404, heur = -8.0, depth = 8
iter = 9356, queue = 14403, heur = -8.0, depth = 8
iter = 9357, queue = 14404, heur = -8.0, depth = 8
iter = 9358, queue = 14407, heur = -8.0, depth = 8
iter = 9359, queue = 14410, heur = -8.0, depth = 8
iter = 9360, queue = 14409, heur = -8.0, depth = 8
iter = 9361, queue = 14412, heur = -8.0, depth = 8
iter = 9362, queue = 14414, heur = -8.0, depth = 8
iter = 9363, queue = 14415, heur = -8.0, depth = 8
iter = 9364, queue = 14414, heur = -8.0, depth = 8
iter = 9365, queue = 14415, heur = -8.0, depth = 8
iter = 9366, queue = 14414, heur = -8.0, depth = 8
iter = 9367, queue = 14415, heur = -8.0, depth = 8
iter = 9368, queue = 14414, heur = -8.0, depth = 8
iter = 9369, queue = 14415, heur = -8.0, depth = 8
iter = 9370, queue = 14416, heur = -8.0, depth = 8
iter = 9371, queue = 14418, heur = -8.0, depth = 8
iter = 9372, queue = 14419, heur = -8.0, depth = 8
iter = 9373, queue = 14420, heur = -8.0, depth = 8
iter = 9374, queue = 14422, heur = -8.0, depth = 8
iter = 9375, queue = 14423, heur = -8.0, depth = 8
iter = 9376, queue = 14424, heur = -8.0, depth = 8
iter = 9377, queue = 14423, heur = -8.0, depth = 8
iter = 9378, queue = 14426, heur = -8.0, depth = 8
iter = 9379, queue = 14427, heur = -8.0, depth = 8
```

```
iter = 9380, queue = 14428, heur = -8.0, depth = 8
iter = 9381, queue = 14429, heur = -8.0, depth = 9
iter = 9382, queue = 14432, heur = -8.0, depth = 8
iter = 9383, queue = 14434, heur = -8.0, depth = 8
iter = 9384, queue = 14433, heur = -8.0, depth = 8
iter = 9385, queue = 14433, heur = -8.0, depth = 9
iter = 9386, queue = 14434, heur = -8.0, depth = 9
iter = 9387, queue = 14435, heur = -8.0, depth = 8
iter = 9388, queue = 14437, heur = -8.0, depth = 9
iter = 9389, queue = 14438, heur = -8.0, depth = 9
iter = 9390, queue = 14440, heur = -8.0, depth = 8
iter = 9391, queue = 14441, heur = -8.0, depth = 8
iter = 9392, queue = 14443, heur = -8.0, depth = 8
iter = 9393, queue = 14444, heur = -8.0, depth = 8
iter = 9394, queue = 14444, heur = -8.0, depth = 8
iter = 9395, queue = 14447, heur = -8.0, depth = 9
iter = 9396, queue = 14448, heur = -8.0, depth = 9
iter = 9397, queue = 14450, heur = -8.0, depth = 8
iter = 9398, queue = 14453, heur = -8.0, depth = 8
iter = 9399, queue = 14455, heur = -8.0, depth = 8
iter = 9400, queue = 14458, heur = -8.0, depth = 8
iter = 9401, queue = 14459, heur = -8.0, depth = 8
iter = 9402, queue = 14462, heur = -8.0, depth = 9
iter = 9403, queue = 14465, heur = -8.0, depth = 8
iter = 9404, queue = 14467, heur = -8.0, depth = 8
iter = 9405, queue = 14469, heur = -8.0, depth = 8
iter = 9406, queue = 14470, heur = -8.0, depth = 8
iter = 9407, queue = 14469, heur = -8.0, depth = 8
iter = 9408, queue = 14472, heur = -8.0, depth = 8
iter = 9409, queue = 14472, heur = -8.0, depth = 8
iter = 9410, queue = 14473, heur = -8.0, depth = 8
iter = 9411, queue = 14476, heur = -8.0, depth = 8
iter = 9412, queue = 14477, heur = -8.0, depth = 8
iter = 9413, queue = 14479, heur = -8.0, depth = 8
iter = 9414, queue = 14480, heur = -8.0, depth = 8
iter = 9415, queue = 14482, heur = -8.0, depth = 8
iter = 9416, queue = 14482, heur = -8.0, depth = 8
iter = 9417, queue = 14482, heur = -8.0, depth = 8
iter = 9418, queue = 14482, heur = -8.0, depth = 8
iter = 9419, queue = 14483, heur = -8.0, depth = 8
iter = 9420, queue = 14482, heur = -8.0, depth = 8
iter = 9421, queue = 14481, heur = -8.0, depth = 8
iter = 9422, queue = 14480, heur = -8.0, depth = 8
iter = 9423, queue = 14481, heur = -8.0, depth = 8
iter = 9424, queue = 14481, heur = -8.0, depth = 8
iter = 9425, queue = 14480, heur = -8.0, depth = 9
iter = 9426, queue = 14479, heur = -8.0, depth = 8
iter = 9427, queue = 14479, heur = -8.0, depth = 9
iter = 9428, queue = 14481, heur = -8.0, depth = 9
iter = 9429, queue = 14480, heur = -8.0, depth = 8
iter = 9430, queue = 14482, heur = -8.0, depth = 8
iter = 9431, queue = 14483, heur = -8.0, depth = 8
iter = 9432, queue = 14484, heur = -8.0, depth = 8
iter = 9433, queue = 14487, heur = -8.0, depth = 9
iter = 9434, queue = 14488, heur = -8.0, depth = 8
iter = 9435, queue = 14488, heur = -8.0, depth = 8
iter = 9436, queue = 14490, heur = -8.0, depth = 8
iter = 9437, queue = 14491, heur = -8.0, depth = 8
iter = 9438, queue = 14491, heur = -8.0, depth = 8
```

```
iter = 9439, queue = 14492, heur = -8.0, depth = 8
iter = 9440, queue = 14495, heur = -8.0, depth = 8
iter = 9441, queue = 14496, heur = -8.0, depth = 8
iter = 9442, queue = 14498, heur = -8.0, depth = 8
iter = 9443, queue = 14501, heur = -8.0, depth = 8
iter = 9444, queue = 14501, heur = -8.0, depth = 8
iter = 9445, queue = 14504, heur = -8.0, depth = 8
iter = 9446, queue = 14503, heur = -8.0, depth = 8
iter = 9447, queue = 14505, heur = -8.0, depth = 8
iter = 9448, queue = 14505, heur = -8.0, depth = 8
iter = 9449, queue = 14506, heur = -8.0, depth = 8
iter = 9450, queue = 14507, heur = -8.0, depth = 8
iter = 9451, queue = 14508, heur = -8.0, depth = 8
iter = 9452, queue = 14510, heur = -8.0, depth = 8
iter = 9453, queue = 14512, heur = -8.0, depth = 8
iter = 9454, queue = 14515, heur = -8.0, depth = 8
iter = 9455, queue = 14515, heur = -8.0, depth = 8
iter = 9456, queue = 14517, heur = -8.0, depth = 9
iter = 9457, queue = 14518, heur = -8.0, depth = 8
iter = 9458, queue = 14519, heur = -8.0, depth = 9
iter = 9459, queue = 14518, heur = -8.0, depth = 8
iter = 9460, queue = 14518, heur = -8.0, depth = 8
iter = 9461, queue = 14517, heur = -8.0, depth = 8
iter = 9462, queue = 14518, heur = -8.0, depth = 8
iter = 9463, queue = 14517, heur = -8.0, depth = 8
iter = 9464, queue = 14517, heur = -8.0, depth = 8
iter = 9465, queue = 14520, heur = -8.0, depth = 8
iter = 9466, queue = 14523, heur = -8.0, depth = 8
iter = 9467, queue = 14524, heur = -8.0, depth = 8
iter = 9468, queue = 14527, heur = -8.0, depth = 8
iter = 9469, queue = 14528, heur = -8.0, depth = 9
iter = 9470, queue = 14531, heur = -8.0, depth = 9
iter = 9471, queue = 14531, heur = -8.0, depth = 8
iter = 9472, queue = 14532, heur = -8.0, depth = 9
iter = 9473, queue = 14533, heur = -8.0, depth = 8
iter = 9474, queue = 14534, heur = -8.0, depth = 8
iter = 9475, queue = 14535, heur = -8.0, depth = 8
iter = 9476, queue = 14535, heur = -8.0, depth = 8
iter = 9477, queue = 14536, heur = -8.0, depth = 8
iter = 9478, queue = 14537, heur = -8.0, depth = 8
iter = 9479, queue = 14538, heur = -8.0, depth = 8
iter = 9480, queue = 14540, heur = -8.0, depth = 8
iter = 9481, queue = 14542, heur = -8.0, depth = 8
iter = 9482, queue = 14544, heur = -8.0, depth = 8
iter = 9483, queue = 14545, heur = -8.0, depth = 8
iter = 9484, queue = 14547, heur = -8.0, depth = 8
iter = 9485, queue = 14546, heur = -8.0, depth = 8
iter = 9486, queue = 14546, heur = -8.0, depth = 8
iter = 9487, queue = 14547, heur = -8.0, depth = 8
iter = 9488, queue = 14548, heur = -8.0, depth = 8
iter = 9489, queue = 14550, heur = -8.0, depth = 8
iter = 9490, queue = 14551, heur = -8.0, depth = 8
iter = 9491, queue = 14553, heur = -8.0, depth = 8
iter = 9492, queue = 14552, heur = -8.0, depth = 8
iter = 9493, queue = 14553, heur = -8.0, depth = 8
iter = 9494, queue = 14553, heur = -8.0, depth = 8
iter = 9495, queue = 14554, heur = -8.0, depth = 8
iter = 9496, queue = 14554, heur = -8.0, depth = 8
iter = 9497, queue = 14555, heur = -8.0, depth = 8
```

```
iter = 9498, queue = 14556, heur = -8.0, depth = 8
iter = 9499, queue = 14557, heur = -8.0, depth = 8
iter = 9500, queue = 14559, heur = -8.0, depth = 8
iter = 9501, queue = 14560, heur = -8.0, depth = 8
iter = 9502, queue = 14563, heur = -8.0, depth = 9
iter = 9503, queue = 14564, heur = -8.0, depth = 9
iter = 9504, queue = 14565, heur = -8.0, depth = 9
iter = 9505, queue = 14564, heur = -8.0, depth = 8
iter = 9506, queue = 14565, heur = -8.0, depth = 8
iter = 9507, queue = 14564, heur = -8.0, depth = 9
iter = 9508, queue = 14567, heur = -8.0, depth = 8
iter = 9509, queue = 14568, heur = -8.0, depth = 8
iter = 9510, queue = 14571, heur = -8.0, depth = 8
iter = 9511, queue = 14573, heur = -8.0, depth = 8
iter = 9512, queue = 14576, heur = -8.0, depth = 9
iter = 9513, queue = 14578, heur = -8.0, depth = 8
iter = 9514, queue = 14579, heur = -8.0, depth = 8
iter = 9515, queue = 14578, heur = -8.0, depth = 8
iter = 9516, queue = 14579, heur = -8.0, depth = 9
iter = 9517, queue = 14579, heur = -8.0, depth = 8
iter = 9518, queue = 14579, heur = -8.0, depth = 8
iter = 9519, queue = 14581, heur = -8.0, depth = 8
iter = 9520, queue = 14582, heur = -8.0, depth = 8
iter = 9521, queue = 14583, heur = -8.0, depth = 8
iter = 9522, queue = 14585, heur = -8.0, depth = 8
iter = 9523, queue = 14586, heur = -8.0, depth = 8
iter = 9524, queue = 14587, heur = -8.0, depth = 9
iter = 9525, queue = 14589, heur = -8.0, depth = 8
iter = 9526, queue = 14588, heur = -8.0, depth = 8
iter = 9527, queue = 14591, heur = -8.0, depth = 8
iter = 9528, queue = 14593, heur = -8.0, depth = 8
iter = 9529, queue = 14594, heur = -8.0, depth = 8
iter = 9530, queue = 14597, heur = -8.0, depth = 9
iter = 9531, queue = 14598, heur = -8.0, depth = 8
iter = 9532, queue = 14598, heur = -8.0, depth = 8
iter = 9533, queue = 14599, heur = -8.0, depth = 8
iter = 9534, queue = 14602, heur = -8.0, depth = 8
iter = 9535, queue = 14603, heur = -8.0, depth = 8
iter = 9536, queue = 14603, heur = -8.0, depth = 8
iter = 9537, queue = 14605, heur = -8.0, depth = 9
iter = 9538, queue = 14607, heur = -8.0, depth = 8
iter = 9539, queue = 14609, heur = -8.0, depth = 10
iter = 9540, queue = 14611, heur = -8.0, depth = 8
iter = 9541, queue = 14610, heur = -8.0, depth = 9
iter = 9542, queue = 14611, heur = -8.0, depth = 8
iter = 9543, queue = 14610, heur = -8.0, depth = 8
iter = 9544, queue = 14611, heur = -8.0, depth = 8
iter = 9545, queue = 14612, heur = -8.0, depth = 8
iter = 9546, queue = 14615, heur = -8.0, depth = 8
iter = 9547, queue = 14616, heur = -8.0, depth = 8
iter = 9548, queue = 14617, heur = -8.0, depth = 8
iter = 9549, queue = 14620, heur = -8.0, depth = 8
iter = 9550, queue = 14623, heur = -8.0, depth = 8
iter = 9551, queue = 14625, heur = -8.0, depth = 8
iter = 9552, queue = 14625, heur = -8.0, depth = 8
iter = 9553, queue = 14625, heur = -8.0, depth = 8
iter = 9554, queue = 14626, heur = -8.0, depth = 8
iter = 9555, queue = 14629, heur = -8.0, depth = 8
iter = 9556, queue = 14631, heur = -8.0, depth = 8
```

```
iter = 9557, queue = 14632, heur = -8.0, depth = 8
iter = 9558, queue = 14632, heur = -8.0, depth = 8
iter = 9559, queue = 14635, heur = -8.0, depth = 8
iter = 9560, queue = 14637, heur = -8.0, depth = 8
iter = 9561, queue = 14639, heur = -8.0, depth = 8
iter = 9562, queue = 14640, heur = -8.0, depth = 8
iter = 9563, queue = 14639, heur = -8.0, depth = 8
iter = 9564, queue = 14640, heur = -8.0, depth = 8
iter = 9565, queue = 14641, heur = -8.0, depth = 8
iter = 9566, queue = 14642, heur = -8.0, depth = 8
iter = 9567, queue = 14643, heur = -8.0, depth = 8
iter = 9568, queue = 14646, heur = -8.0, depth = 8
iter = 9569, queue = 14649, heur = -8.0, depth = 8
iter = 9570, queue = 14648, heur = -8.0, depth = 8
iter = 9571, queue = 14649, heur = -8.0, depth = 8
iter = 9572, queue = 14650, heur = -8.0, depth = 10
iter = 9573, queue = 14650, heur = -8.0, depth = 8
iter = 9574, queue = 14653, heur = -8.0, depth = 11
iter = 9575, queue = 14652, heur = -8.0, depth = 8
iter = 9576, queue = 14654, heur = -8.0, depth = 8
iter = 9577, queue = 14657, heur = -8.0, depth = 8
iter = 9578, queue = 14660, heur = -8.0, depth = 8
iter = 9579, queue = 14660, heur = -8.0, depth = 8
iter = 9580, queue = 14663, heur = -8.0, depth = 8
iter = 9581, queue = 14666, heur = -8.0, depth = 8
iter = 9582, queue = 14667, heur = -8.0, depth = 8
iter = 9583, queue = 14668, heur = -8.0, depth = 8
iter = 9584, queue = 14667, heur = -8.0, depth = 8
iter = 9585, queue = 14670, heur = -8.0, depth = 8
iter = 9586, queue = 14671, heur = -8.0, depth = 8
iter = 9587, queue = 14672, heur = -8.0, depth = 9
iter = 9588, queue = 14674, heur = -8.0, depth = 8
iter = 9589, queue = 14675, heur = -8.0, depth = 9
iter = 9590, queue = 14678, heur = -8.0, depth = 9
iter = 9591, queue = 14681, heur = -8.0, depth = 8
iter = 9592, queue = 14682, heur = -8.0, depth = 8
iter = 9593, queue = 14685, heur = -8.0, depth = 8
iter = 9594, queue = 14686, heur = -8.0, depth = 8
iter = 9595, queue = 14688, heur = -8.0, depth = 8
iter = 9596, queue = 14691, heur = -8.0, depth = 8
iter = 9597, queue = 14693, heur = -8.0, depth = 8
iter = 9598, queue = 14696, heur = -8.0, depth = 8
iter = 9599, queue = 14697, heur = -8.0, depth = 8
iter = 9600, queue = 14700, heur = -8.0, depth = 8
iter = 9601, queue = 14700, heur = -8.0, depth = 8
iter = 9602, queue = 14701, heur = -8.0, depth = 8
iter = 9603, queue = 14704, heur = -8.0, depth = 8
iter = 9604, queue = 14705, heur = -8.0, depth = 8
iter = 9605, queue = 14706, heur = -8.0, depth = 8
iter = 9606, queue = 14706, heur = -8.0, depth = 8
iter = 9607, queue = 14709, heur = -8.0, depth = 8
iter = 9608, queue = 14712, heur = -8.0, depth = 8
iter = 9609, queue = 14713, heur = -8.0, depth = 8
iter = 9610, queue = 14716, heur = -8.0, depth = 10
iter = 9611, queue = 14716, heur = -8.0, depth = 8
iter = 9612, queue = 14717, heur = -8.0, depth = 8
iter = 9613, queue = 14716, heur = -8.0, depth = 9
iter = 9614, queue = 14719, heur = -8.0, depth = 8
iter = 9615, queue = 14722, heur = -8.0, depth = 10
```

```
iter = 9616, queue = 14725, heur = -8.0, depth = 8
iter = 9617, queue = 14726, heur = -8.0, depth = 8
iter = 9618, queue = 14728, heur = -8.0, depth = 8
iter = 9619, queue = 14730, heur = -8.0, depth = 8
iter = 9620, queue = 14732, heur = -8.0, depth = 8
iter = 9621, queue = 14734, heur = -8.0, depth = 8
iter = 9622, queue = 14736, heur = -8.0, depth = 8
iter = 9623, queue = 14736, heur = -8.0, depth = 8
iter = 9624, queue = 14738, heur = -8.0, depth = 8
iter = 9625, queue = 14741, heur = -8.0, depth = 8
iter = 9626, queue = 14742, heur = -8.0, depth = 9
iter = 9627, queue = 14745, heur = -8.0, depth = 8
iter = 9628, queue = 14748, heur = -8.0, depth = 8
iter = 9629, queue = 14749, heur = -8.0, depth = 8
iter = 9630, queue = 14749, heur = -8.0, depth = 8
iter = 9631, queue = 14750, heur = -8.0, depth = 8
iter = 9632, queue = 14751, heur = -8.0, depth = 8
iter = 9633, queue = 14751, heur = -8.0, depth = 8
iter = 9634, queue = 14752, heur = -8.0, depth = 8
iter = 9635, queue = 14751, heur = -8.0, depth = 9
iter = 9636, queue = 14752, heur = -8.0, depth = 8
iter = 9637, queue = 14752, heur = -8.0, depth = 8
iter = 9638, queue = 14751, heur = -8.0, depth = 8
iter = 9639, queue = 14754, heur = -8.0, depth = 8
iter = 9640, queue = 14755, heur = -8.0, depth = 8
iter = 9641, queue = 14757, heur = -8.0, depth = 8
iter = 9642, queue = 14760, heur = -8.0, depth = 8
iter = 9643, queue = 14761, heur = -8.0, depth = 8
iter = 9644, queue = 14764, heur = -8.0, depth = 8
iter = 9645, queue = 14765, heur = -8.0, depth = 8
iter = 9646, queue = 14764, heur = -8.0, depth = 9
iter = 9647, queue = 14767, heur = -8.0, depth = 8
iter = 9648, queue = 14768, heur = -8.0, depth = 8
iter = 9649, queue = 14769, heur = -8.0, depth = 8
iter = 9650, queue = 14772, heur = -8.0, depth = 8
iter = 9651, queue = 14772, heur = -8.0, depth = 8
iter = 9652, queue = 14775, heur = -8.0, depth = 8
iter = 9653, queue = 14777, heur = -8.0, depth = 8
iter = 9654, queue = 14779, heur = -8.0, depth = 8
iter = 9655, queue = 14782, heur = -8.0, depth = 8
iter = 9656, queue = 14785, heur = -8.0, depth = 8
iter = 9657, queue = 14788, heur = -8.0, depth = 9
iter = 9658, queue = 14789, heur = -8.0, depth = 8
iter = 9659, queue = 14790, heur = -8.0, depth = 9
iter = 9660, queue = 14792, heur = -8.0, depth = 8
iter = 9661, queue = 14793, heur = -8.0, depth = 8
iter = 9662, queue = 14794, heur = -8.0, depth = 8
iter = 9663, queue = 14795, heur = -8.0, depth = 9
iter = 9664, queue = 14794, heur = -8.0, depth = 9
iter = 9665, queue = 14795, heur = -8.0, depth = 8
iter = 9666, queue = 14796, heur = -8.0, depth = 8
iter = 9667, queue = 14797, heur = -8.0, depth = 8
iter = 9668, queue = 14799, heur = -8.0, depth = 8
iter = 9669, queue = 14802, heur = -8.0, depth = 9
iter = 9670, queue = 14804, heur = -8.0, depth = 8
iter = 9671, queue = 14807, heur = -8.0, depth = 8
iter = 9672, queue = 14809, heur = -8.0, depth = 9
iter = 9673, queue = 14810, heur = -8.0, depth = 8
iter = 9674, queue = 14811, heur = -8.0, depth = 8
```

```
iter = 9675, queue = 14812, heur = -8.0, depth = 8
iter = 9676, queue = 14812, heur = -8.0, depth = 8
iter = 9677, queue = 14813, heur = -8.0, depth = 8
iter = 9678, queue = 14816, heur = -8.0, depth = 8
iter = 9679, queue = 14816, heur = -8.0, depth = 8
iter = 9680, queue = 14819, heur = -8.0, depth = 8
iter = 9681, queue = 14818, heur = -8.0, depth = 8
iter = 9682, queue = 14819, heur = -8.0, depth = 8
iter = 9683, queue = 14820, heur = -8.0, depth = 8
iter = 9684, queue = 14821, heur = -8.0, depth = 8
iter = 9685, queue = 14822, heur = -8.0, depth = 9
iter = 9686, queue = 14822, heur = -8.0, depth = 8
iter = 9687, queue = 14823, heur = -8.0, depth = 8
iter = 9688, queue = 14822, heur = -8.0, depth = 8
iter = 9689, queue = 14823, heur = -8.0, depth = 8
iter = 9690, queue = 14825, heur = -8.0, depth = 8
iter = 9691, queue = 14826, heur = -8.0, depth = 8
iter = 9692, queue = 14826, heur = -8.0, depth = 8
iter = 9693, queue = 14827, heur = -8.0, depth = 8
iter = 9694, queue = 14828, heur = -8.0, depth = 8
iter = 9695, queue = 14829, heur = -8.0, depth = 8
iter = 9696, queue = 14828, heur = -8.0, depth = 8
iter = 9697, queue = 14830, heur = -8.0, depth = 8
iter = 9698, queue = 14830, heur = -8.0, depth = 8
iter = 9699, queue = 14832, heur = -8.0, depth = 9
iter = 9700, queue = 14833, heur = -8.0, depth = 8
iter = 9701, queue = 14835, heur = -8.0, depth = 8
iter = 9702, queue = 14834, heur = -8.0, depth = 8
iter = 9703, queue = 14835, heur = -8.0, depth = 9
iter = 9704, queue = 14837, heur = -8.0, depth = 8
iter = 9705, queue = 14838, heur = -8.0, depth = 8
iter = 9706, queue = 14840, heur = -8.0, depth = 9
iter = 9707, queue = 14843, heur = -8.0, depth = 8
iter = 9708, queue = 14845, heur = -8.0, depth = 8
iter = 9709, queue = 14846, heur = -8.0, depth = 8
iter = 9710, queue = 14847, heur = -8.0, depth = 8
iter = 9711, queue = 14849, heur = -8.0, depth = 8
iter = 9712, queue = 14851, heur = -8.0, depth = 9
iter = 9713, queue = 14853, heur = -8.0, depth = 9
iter = 9714, queue = 14854, heur = -8.0, depth = 9
iter = 9715, queue = 14857, heur = -8.0, depth = 9
iter = 9716, queue = 14858, heur = -8.0, depth = 8
iter = 9717, queue = 14859, heur = -8.0, depth = 8
iter = 9718, queue = 14860, heur = -8.0, depth = 8
iter = 9719, queue = 14863, heur = -8.0, depth = 8
iter = 9720, queue = 14865, heur = -8.0, depth = 8
iter = 9721, queue = 14867, heur = -8.0, depth = 8
iter = 9722, queue = 14869, heur = -8.0, depth = 10
iter = 9723, queue = 14870, heur = -8.0, depth = 8
iter = 9724, queue = 14873, heur = -8.0, depth = 8
iter = 9725, queue = 14875, heur = -8.0, depth = 9
iter = 9726, queue = 14877, heur = -8.0, depth = 9
iter = 9727, queue = 14877, heur = -8.0, depth = 8
iter = 9728, queue = 14878, heur = -8.0, depth = 8
iter = 9729, queue = 14880, heur = -8.0, depth = 8
iter = 9730, queue = 14879, heur = -8.0, depth = 8
iter = 9731, queue = 14881, heur = -8.0, depth = 8
iter = 9732, queue = 14882, heur = -8.0, depth = 8
iter = 9733, queue = 14883, heur = -8.0, depth = 8
```

```
iter = 9734, queue = 14886, heur = -8.0, depth = 8
iter = 9735, queue = 14886, heur = -8.0, depth = 9
iter = 9736, queue = 14889, heur = -8.0, depth = 8
iter = 9737, queue = 14890, heur = -8.0, depth = 8
iter = 9738, queue = 14891, heur = -8.0, depth = 8
iter = 9739, queue = 14890, heur = -8.0, depth = 8
iter = 9740, queue = 14890, heur = -8.0, depth = 8
iter = 9741, queue = 14890, heur = -8.0, depth = 8
iter = 9742, queue = 14892, heur = -8.0, depth = 8
iter = 9743, queue = 14894, heur = -8.0, depth = 8
iter = 9744, queue = 14897, heur = -8.0, depth = 8
iter = 9745, queue = 14899, heur = -8.0, depth = 8
iter = 9746, queue = 14900, heur = -8.0, depth = 8
iter = 9747, queue = 14901, heur = -8.0, depth = 8
iter = 9748, queue = 14904, heur = -8.0, depth = 8
iter = 9749, queue = 14905, heur = -8.0, depth = 8
iter = 9750, queue = 14904, heur = -8.0, depth = 8
iter = 9751, queue = 14906, heur = -8.0, depth = 8
iter = 9752, queue = 14907, heur = -8.0, depth = 8
iter = 9753, queue = 14909, heur = -8.0, depth = 9
iter = 9754, queue = 14910, heur = -8.0, depth = 8
iter = 9755, queue = 14912, heur = -8.0, depth = 8
iter = 9756, queue = 14912, heur = -8.0, depth = 8
iter = 9757, queue = 14913, heur = -8.0, depth = 8
iter = 9758, queue = 14916, heur = -8.0, depth = 8
iter = 9759, queue = 14919, heur = -8.0, depth = 8
iter = 9760, queue = 14920, heur = -8.0, depth = 8
iter = 9761, queue = 14921, heur = -8.0, depth = 8
iter = 9762, queue = 14922, heur = -8.0, depth = 8
iter = 9763, queue = 14923, heur = -8.0, depth = 8
iter = 9764, queue = 14926, heur = -8.0, depth = 8
iter = 9765, queue = 14928, heur = -8.0, depth = 8
iter = 9766, queue = 14931, heur = -8.0, depth = 8
iter = 9767, queue = 14933, heur = -8.0, depth = 8
iter = 9768, queue = 14936, heur = -8.0, depth = 8
iter = 9769, queue = 14939, heur = -8.0, depth = 8
iter = 9770, queue = 14942, heur = -8.0, depth = 8
iter = 9771, queue = 14944, heur = -8.0, depth = 8
iter = 9772, queue = 14944, heur = -8.0, depth = 8
iter = 9773, queue = 14947, heur = -8.0, depth = 8
iter = 9774, queue = 14949, heur = -8.0, depth = 8
iter = 9775, queue = 14949, heur = -8.0, depth = 8
iter = 9776, queue = 14952, heur = -8.0, depth = 8
iter = 9777, queue = 14952, heur = -8.0, depth = 8
iter = 9778, queue = 14951, heur = -8.0, depth = 8
iter = 9779, queue = 14952, heur = -8.0, depth = 8
iter = 9780, queue = 14951, heur = -8.0, depth = 9
iter = 9781, queue = 14952, heur = -8.0, depth = 8
iter = 9782, queue = 14955, heur = -8.0, depth = 8
iter = 9783, queue = 14958, heur = -8.0, depth = 8
iter = 9784, queue = 14959, heur = -8.0, depth = 8
iter = 9785, queue = 14958, heur = -8.0, depth = 8
iter = 9786, queue = 14960, heur = -8.0, depth = 9
iter = 9787, queue = 14963, heur = -8.0, depth = 8
iter = 9788, queue = 14966, heur = -8.0, depth = 8
iter = 9789, queue = 14966, heur = -8.0, depth = 8
iter = 9790, queue = 14968, heur = -8.0, depth = 8
iter = 9791, queue = 14969, heur = -8.0, depth = 8
iter = 9792, queue = 14971, heur = -8.0, depth = 9
```

```
iter = 9793, queue = 14974, heur = -8.0, depth = 9
iter = 9794, queue = 14977, heur = -8.0, depth = 8
iter = 9795, queue = 14979, heur = -8.0, depth = 8
iter = 9796, queue = 14980, heur = -8.0, depth = 8
iter = 9797, queue = 14983, heur = -8.0, depth = 8
iter = 9798, queue = 14983, heur = -8.0, depth = 8
iter = 9799, queue = 14982, heur = -8.0, depth = 8
iter = 9800, queue = 14983, heur = -8.0, depth = 8
iter = 9801, queue = 14984, heur = -8.0, depth = 8
iter = 9802, queue = 14985, heur = -8.0, depth = 8
iter = 9803, queue = 14985, heur = -8.0, depth = 8
iter = 9804, queue = 14987, heur = -8.0, depth = 8
iter = 9805, queue = 14988, heur = -8.0, depth = 8
iter = 9806, queue = 14989, heur = -8.0, depth = 8
iter = 9807, queue = 14990, heur = -8.0, depth = 8
iter = 9808, queue = 14991, heur = -8.0, depth = 8
iter = 9809, queue = 14992, heur = -8.0, depth = 8
iter = 9810, queue = 14993, heur = -8.0, depth = 8
iter = 9811, queue = 14992, heur = -8.0, depth = 8
iter = 9812, queue = 14994, heur = -8.0, depth = 8
iter = 9813, queue = 14997, heur = -8.0, depth = 8
iter = 9814, queue = 14998, heur = -8.0, depth = 8
iter = 9815, queue = 14999, heur = -8.0, depth = 8
iter = 9816, queue = 15000, heur = -8.0, depth = 8
iter = 9817, queue = 14999, heur = -8.0, depth = 8
iter = 9818, queue = 15002, heur = -8.0, depth = 8
iter = 9819, queue = 15003, heur = -8.0, depth = 8
iter = 9820, queue = 15005, heur = -8.0, depth = 8
iter = 9821, queue = 15006, heur = -8.0, depth = 8
iter = 9822, queue = 15007, heur = -8.0, depth = 8
iter = 9823, queue = 15007, heur = -8.0, depth = 8
iter = 9824, queue = 15008, heur = -8.0, depth = 8
iter = 9825, queue = 15008, heur = -8.0, depth = 8
iter = 9826, queue = 15009, heur = -8.0, depth = 8
iter = 9827, queue = 15010, heur = -8.0, depth = 8
iter = 9828, queue = 15013, heur = -8.0, depth = 8
iter = 9829, queue = 15014, heur = -8.0, depth = 8
iter = 9830, queue = 15014, heur = -8.0, depth = 8
iter = 9831, queue = 15016, heur = -8.0, depth = 8
iter = 9832, queue = 15018, heur = -8.0, depth = 9
iter = 9833, queue = 15021, heur = -8.0, depth = 9
iter = 9834, queue = 15021, heur = -8.0, depth = 8
iter = 9835, queue = 15022, heur = -8.0, depth = 9
iter = 9836, queue = 15023, heur = -8.0, depth = 8
iter = 9837, queue = 15022, heur = -8.0, depth = 9
iter = 9838, queue = 15023, heur = -8.0, depth = 9
iter = 9839, queue = 15026, heur = -8.0, depth = 8
iter = 9840, queue = 15028, heur = -8.0, depth = 9
iter = 9841, queue = 15029, heur = -8.0, depth = 9
iter = 9842, queue = 15032, heur = -8.0, depth = 8
iter = 9843, queue = 15035, heur = -8.0, depth = 8
iter = 9844, queue = 15035, heur = -8.0, depth = 8
iter = 9845, queue = 15037, heur = -8.0, depth = 8
iter = 9846, queue = 15038, heur = -8.0, depth = 8
iter = 9847, queue = 15039, heur = -8.0, depth = 8
iter = 9848, queue = 15042, heur = -8.0, depth = 10
iter = 9849, queue = 15044, heur = -8.0, depth = 8
iter = 9850, queue = 15047, heur = -8.0, depth = 8
iter = 9851, queue = 15048, heur = -8.0, depth = 9
```

```
iter = 9852, queue = 15048, heur = -8.0, depth = 8
iter = 9853, queue = 15050, heur = -8.0, depth = 8
iter = 9854, queue = 15053, heur = -8.0, depth = 8
iter = 9855, queue = 15053, heur = -8.0, depth = 8
iter = 9856, queue = 15055, heur = -8.0, depth = 8
iter = 9857, queue = 15058, heur = -8.0, depth = 8
iter = 9858, queue = 15061, heur = -8.0, depth = 9
iter = 9859, queue = 15063, heur = -8.0, depth = 8
iter = 9860, queue = 15064, heur = -8.0, depth = 8
iter = 9861, queue = 15065, heur = -8.0, depth = 8
iter = 9862, queue = 15066, heur = -8.0, depth = 8
iter = 9863, queue = 15067, heur = -8.0, depth = 8
iter = 9864, queue = 15066, heur = -8.0, depth = 8
iter = 9865, queue = 15067, heur = -8.0, depth = 8
iter = 9866, queue = 15069, heur = -8.0, depth = 8
iter = 9867, queue = 15070, heur = -8.0, depth = 8
iter = 9868, queue = 15073, heur = -8.0, depth = 8
iter = 9869, queue = 15072, heur = -8.0, depth = 9
iter = 9870, queue = 15073, heur = -8.0, depth = 8
iter = 9871, queue = 15076, heur = -8.0, depth = 8
iter = 9872, queue = 15077, heur = -8.0, depth = 8
iter = 9873, queue = 15076, heur = -8.0, depth = 8
iter = 9874, queue = 15077, heur = -8.0, depth = 8
iter = 9875, queue = 15078, heur = -8.0, depth = 8
iter = 9876, queue = 15079, heur = -8.0, depth = 8
iter = 9877, queue = 15078, heur = -8.0, depth = 8
iter = 9878, queue = 15081, heur = -8.0, depth = 8
iter = 9879, queue = 15082, heur = -8.0, depth = 8
iter = 9880, queue = 15083, heur = -8.0, depth = 8
iter = 9881, queue = 15084, heur = -8.0, depth = 8
iter = 9882, queue = 15086, heur = -8.0, depth = 8
iter = 9883, queue = 15089, heur = -8.0, depth = 9
iter = 9884, queue = 15091, heur = -8.0, depth = 8
iter = 9885, queue = 15093, heur = -8.0, depth = 8
iter = 9886, queue = 15092, heur = -8.0, depth = 8
iter = 9887, queue = 15092, heur = -8.0, depth = 8
iter = 9888, queue = 15091, heur = -8.0, depth = 8
iter = 9889, queue = 15094, heur = -8.0, depth = 9
iter = 9890, queue = 15095, heur = -8.0, depth = 9
iter = 9891, queue = 15094, heur = -8.0, depth = 8
iter = 9892, queue = 15095, heur = -8.0, depth = 8
iter = 9893, queue = 15096, heur = -8.0, depth = 9
iter = 9894, queue = 15099, heur = -8.0, depth = 8
iter = 9895, queue = 15101, heur = -8.0, depth = 8
iter = 9896, queue = 15104, heur = -8.0, depth = 8
iter = 9897, queue = 15105, heur = -8.0, depth = 8
iter = 9898, queue = 15105, heur = -8.0, depth = 8
iter = 9899, queue = 15106, heur = -8.0, depth = 8
iter = 9900, queue = 15107, heur = -8.0, depth = 8
iter = 9901, queue = 15106, heur = -8.0, depth = 8
iter = 9902, queue = 15109, heur = -8.0, depth = 8
iter = 9903, queue = 15112, heur = -8.0, depth = 8
iter = 9904, queue = 15113, heur = -8.0, depth = 8
iter = 9905, queue = 15116, heur = -8.0, depth = 8
iter = 9906, queue = 15117, heur = -8.0, depth = 8
iter = 9907, queue = 15119, heur = -8.0, depth = 8
iter = 9908, queue = 15120, heur = -8.0, depth = 8
iter = 9909, queue = 15122, heur = -8.0, depth = 8
iter = 9910, queue = 15123, heur = -8.0, depth = 8
```

```
iter = 9911, queue = 15124, heur = -8.0, depth = 8
iter = 9912, queue = 15123, heur = -8.0, depth = 8
iter = 9913, queue = 15125, heur = -8.0, depth = 8
iter = 9914, queue = 15125, heur = -8.0, depth = 9
iter = 9915, queue = 15126, heur = -8.0, depth = 8
iter = 9916, queue = 15127, heur = -8.0, depth = 8
iter = 9917, queue = 15127, heur = -8.0, depth = 9
iter = 9918, queue = 15128, heur = -8.0, depth = 8
iter = 9919, queue = 15131, heur = -8.0, depth = 8
iter = 9920, queue = 15134, heur = -8.0, depth = 8
iter = 9921, queue = 15135, heur = -8.0, depth = 8
iter = 9922, queue = 15137, heur = -8.0, depth = 8
iter = 9923, queue = 15140, heur = -8.0, depth = 9
iter = 9924, queue = 15142, heur = -8.0, depth = 8
iter = 9925, queue = 15141, heur = -8.0, depth = 8
iter = 9926, queue = 15142, heur = -8.0, depth = 8
iter = 9927, queue = 15143, heur = -8.0, depth = 8
iter = 9928, queue = 15144, heur = -8.0, depth = 8
iter = 9929, queue = 15147, heur = -8.0, depth = 8
iter = 9930, queue = 15150, heur = -8.0, depth = 8
iter = 9931, queue = 15151, heur = -8.0, depth = 8
iter = 9932, queue = 15153, heur = -8.0, depth = 8
iter = 9933, queue = 15154, heur = -8.0, depth = 8
iter = 9934, queue = 15157, heur = -8.0, depth = 8
iter = 9935, queue = 15160, heur = -8.0, depth = 8
iter = 9936, queue = 15161, heur = -8.0, depth = 8
iter = 9937, queue = 15162, heur = -8.0, depth = 8
iter = 9938, queue = 15161, heur = -8.0, depth = 8
iter = 9939, queue = 15160, heur = -8.0, depth = 8
iter = 9940, queue = 15161, heur = -8.0, depth = 8
iter = 9941, queue = 15162, heur = -8.0, depth = 8
iter = 9942, queue = 15164, heur = -8.0, depth = 8
iter = 9943, queue = 15163, heur = -8.0, depth = 8
iter = 9944, queue = 15163, heur = -8.0, depth = 9
iter = 9945, queue = 15164, heur = -8.0, depth = 8
iter = 9946, queue = 15167, heur = -8.0, depth = 8
iter = 9947, queue = 15168, heur = -8.0, depth = 8
iter = 9948, queue = 15169, heur = -8.0, depth = 8
iter = 9949, queue = 15170, heur = -8.0, depth = 8
iter = 9950, queue = 15171, heur = -8.0, depth = 8
iter = 9951, queue = 15173, heur = -8.0, depth = 9
iter = 9952, queue = 15176, heur = -8.0, depth = 8
iter = 9953, queue = 15178, heur = -8.0, depth = 8
iter = 9954, queue = 15179, heur = -8.0, depth = 9
iter = 9955, queue = 15179, heur = -8.0, depth = 8
iter = 9956, queue = 15182, heur = -8.0, depth = 8
iter = 9957, queue = 15183, heur = -8.0, depth = 8
iter = 9958, queue = 15184, heur = -8.0, depth = 9
iter = 9959, queue = 15185, heur = -8.0, depth = 8
iter = 9960, queue = 15188, heur = -8.0, depth = 8
iter = 9961, queue = 15190, heur = -8.0, depth = 10
iter = 9962, queue = 15191, heur = -8.0, depth = 8
iter = 9963, queue = 15192, heur = -8.0, depth = 8
iter = 9964, queue = 15193, heur = -8.0, depth = 8
iter = 9965, queue = 15195, heur = -8.0, depth = 8
iter = 9966, queue = 15197, heur = -8.0, depth = 8
iter = 9967, queue = 15198, heur = -8.0, depth = 8
iter = 9968, queue = 15198, heur = -8.0, depth = 8
iter = 9969, queue = 15199, heur = -8.0, depth = 8
```

```
iter = 9970, queue = 15200, heur = -8.0, depth = 8
iter = 9971, queue = 15199, heur = -8.0, depth = 8
iter = 9972, queue = 15200, heur = -8.0, depth = 8
iter = 9973, queue = 15201, heur = -8.0, depth = 8
iter = 9974, queue = 15203, heur = -8.0, depth = 8
iter = 9975, queue = 15203, heur = -8.0, depth = 8
iter = 9976, queue = 15206, heur = -8.0, depth = 8
iter = 9977, queue = 15207, heur = -8.0, depth = 8
iter = 9978, queue = 15210, heur = -8.0, depth = 8
iter = 9979, queue = 15213, heur = -8.0, depth = 9
iter = 9980, queue = 15216, heur = -8.0, depth = 10
iter = 9981, queue = 15217, heur = -8.0, depth = 8
iter = 9982, queue = 15216, heur = -8.0, depth = 8
iter = 9983, queue = 15217, heur = -8.0, depth = 8
iter = 9984, queue = 15218, heur = -8.0, depth = 8
iter = 9985, queue = 15219, heur = -8.0, depth = 10
iter = 9986, queue = 15221, heur = -8.0, depth = 8
iter = 9987, queue = 15222, heur = -8.0, depth = 8
iter = 9988, queue = 15225, heur = -8.0, depth = 9
iter = 9989, queue = 15226, heur = -8.0, depth = 8
iter = 9990, queue = 15226, heur = -8.0, depth = 8
iter = 9991, queue = 15229, heur = -8.0, depth = 8
iter = 9992, queue = 15230, heur = -8.0, depth = 9
iter = 9993, queue = 15231, heur = -8.0, depth = 8
iter = 9994, queue = 15234, heur = -8.0, depth = 8
iter = 9995, queue = 15235, heur = -8.0, depth = 8
iter = 9996, queue = 15236, heur = -8.0, depth = 9
iter = 9997, queue = 15239, heur = -8.0, depth = 8
iter = 9998, queue = 15240, heur = -8.0, depth = 8
iter = 9999, queue = 15241, heur = -8.0, depth = 8
iter = 10000, queue = 15240, heur = -8.0, depth = 8
iter = 10001, queue = 15243, heur = -8.0, depth = 9
iter = 10002, queue = 15242, heur = -8.0, depth = 8
iter = 10003, queue = 15245, heur = -8.0, depth = 8
iter = 10004, queue = 15248, heur = -8.0, depth = 8
iter = 10005, queue = 15249, heur = -8.0, depth = 8
iter = 10006, queue = 15250, heur = -8.0, depth = 8
iter = 10007, queue = 15251, heur = -8.0, depth = 8
iter = 10008, queue = 15254, heur = -8.0, depth = 8
iter = 10009, queue = 15257, heur = -8.0, depth = 8
iter = 10010, queue = 15259, heur = -8.0, depth = 8
iter = 10011, queue = 15262, heur = -8.0, depth = 8
iter = 10012, queue = 15263, heur = -8.0, depth = 9
iter = 10013, queue = 15264, heur = -8.0, depth = 8
iter = 10014, queue = 15265, heur = -8.0, depth = 8
iter = 10015, queue = 15266, heur = -8.0, depth = 8
iter = 10016, queue = 15267, heur = -8.0, depth = 8
iter = 10017, queue = 15268, heur = -8.0, depth = 8
iter = 10018, queue = 15270, heur = -8.0, depth = 8
iter = 10019, queue = 15272, heur = -8.0, depth = 8
iter = 10020, queue = 15275, heur = -8.0, depth = 8
iter = 10021, queue = 15276, heur = -8.0, depth = 8
iter = 10022, queue = 15276, heur = -8.0, depth = 8
iter = 10023, queue = 15277, heur = -8.0, depth = 8
iter = 10024, queue = 15279, heur = -8.0, depth = 8
iter = 10025, queue = 15279, heur = -8.0, depth = 8
iter = 10026, queue = 15280, heur = -8.0, depth = 8
iter = 10027, queue = 15282, heur = -8.0, depth = 9
iter = 10028, queue = 15285, heur = -8.0, depth = 8
```

```
iter = 10029, queue = 15285, heur = -8.0, depth = 8
iter = 10030, queue = 15287, heur = -8.0, depth = 8
iter = 10031, queue = 15288, heur = -8.0, depth = 8
iter = 10032, queue = 15290, heur = -8.0, depth = 8
iter = 10033, queue = 15293, heur = -8.0, depth = 8
iter = 10034, queue = 15294, heur = -8.0, depth = 8
iter = 10035, queue = 15297, heur = -8.0, depth = 8
iter = 10036, queue = 15296, heur = -8.0, depth = 9
iter = 10037, queue = 15298, heur = -8.0, depth = 8
iter = 10038, queue = 15299, heur = -8.0, depth = 8
iter = 10039, queue = 15300, heur = -8.0, depth = 8
iter = 10040, queue = 15300, heur = -8.0, depth = 8
iter = 10041, queue = 15301, heur = -8.0, depth = 8
iter = 10042, queue = 15303, heur = -8.0, depth = 8
iter = 10043, queue = 15306, heur = -8.0, depth = 8
iter = 10044, queue = 15309, heur = -8.0, depth = 10
iter = 10045, queue = 15311, heur = -8.0, depth = 9
iter = 10046, queue = 15312, heur = -8.0, depth = 8
iter = 10047, queue = 15313, heur = -8.0, depth = 8
iter = 10048, queue = 15314, heur = -8.0, depth = 8
iter = 10049, queue = 15317, heur = -8.0, depth = 8
iter = 10050, queue = 15319, heur = -8.0, depth = 8
iter = 10051, queue = 15320, heur = -8.0, depth = 9
iter = 10052, queue = 15321, heur = -8.0, depth = 9
iter = 10053, queue = 15320, heur = -8.0, depth = 10
iter = 10054, queue = 15321, heur = -8.0, depth = 9
iter = 10055, queue = 15322, heur = -8.0, depth = 9
iter = 10056, queue = 15323, heur = -8.0, depth = 8
iter = 10057, queue = 15324, heur = -8.0, depth = 8
iter = 10058, queue = 15324, heur = -8.0, depth = 8
iter = 10059, queue = 15325, heur = -8.0, depth = 8
iter = 10060, queue = 15326, heur = -8.0, depth = 8
iter = 10061, queue = 15327, heur = -8.0, depth = 8
iter = 10062, queue = 15328, heur = -8.0, depth = 8
iter = 10063, queue = 15328, heur = -8.0, depth = 8
iter = 10064, queue = 15330, heur = -8.0, depth = 8
iter = 10065, queue = 15330, heur = -8.0, depth = 8
iter = 10066, queue = 15329, heur = -8.0, depth = 8
iter = 10067, queue = 15328, heur = -8.0, depth = 8
iter = 10068, queue = 15327, heur = -8.0, depth = 8
iter = 10069, queue = 15328, heur = -8.0, depth = 8
iter = 10070, queue = 15329, heur = -8.0, depth = 8
iter = 10071, queue = 15330, heur = -8.0, depth = 10
iter = 10072, queue = 15331, heur = -8.0, depth = 8
iter = 10073, queue = 15332, heur = -8.0, depth = 8
iter = 10074, queue = 15332, heur = -8.0, depth = 8
iter = 10075, queue = 15332, heur = -8.0, depth = 8
iter = 10076, queue = 15333, heur = -8.0, depth = 8
iter = 10077, queue = 15335, heur = -8.0, depth = 8
iter = 10078, queue = 15337, heur = -8.0, depth = 8
iter = 10079, queue = 15338, heur = -8.0, depth = 8
iter = 10080, queue = 15338, heur = -8.0, depth = 8
iter = 10081, queue = 15341, heur = -8.0, depth = 8
iter = 10082, queue = 15340, heur = -8.0, depth = 8
iter = 10083, queue = 15339, heur = -8.0, depth = 8
iter = 10084, queue = 15338, heur = -8.0, depth = 8
iter = 10085, queue = 15341, heur = -8.0, depth = 8
iter = 10086, queue = 15344, heur = -8.0, depth = 8
iter = 10087, queue = 15346, heur = -8.0, depth = 8
```

```
iter = 10088, queue = 15346, heur = -8.0, depth = 8
iter = 10089, queue = 15349, heur = -8.0, depth = 8
iter = 10090, queue = 15351, heur = -8.0, depth = 8
iter = 10091, queue = 15354, heur = -8.0, depth = 8
iter = 10092, queue = 15357, heur = -8.0, depth = 8
iter = 10093, queue = 15358, heur = -8.0, depth = 8
iter = 10094, queue = 15357, heur = -8.0, depth = 8
iter = 10095, queue = 15356, heur = -8.0, depth = 8
iter = 10096, queue = 15358, heur = -8.0, depth = 8
iter = 10097, queue = 15359, heur = -8.0, depth = 8
iter = 10098, queue = 15362, heur = -8.0, depth = 8
iter = 10099, queue = 15364, heur = -8.0, depth = 8
iter = 10100, queue = 15365, heur = -8.0, depth = 8
iter = 10101, queue = 15365, heur = -8.0, depth = 8
iter = 10102, queue = 15366, heur = -8.0, depth = 8
iter = 10103, queue = 15367, heur = -8.0, depth = 8
iter = 10104, queue = 15367, heur = -8.0, depth = 8
iter = 10105, queue = 15370, heur = -8.0, depth = 8
iter = 10106, queue = 15371, heur = -8.0, depth = 8
iter = 10107, queue = 15373, heur = -8.0, depth = 8
iter = 10108, queue = 15374, heur = -8.0, depth = 8
iter = 10109, queue = 15375, heur = -8.0, depth = 8
iter = 10110, queue = 15376, heur = -8.0, depth = 8
iter = 10111, queue = 15377, heur = -8.0, depth = 8
iter = 10112, queue = 15379, heur = -8.0, depth = 8
iter = 10113, queue = 15380, heur = -8.0, depth = 8
iter = 10114, queue = 15383, heur = -8.0, depth = 8
iter = 10115, queue = 15382, heur = -8.0, depth = 8
iter = 10116, queue = 15383, heur = -8.0, depth = 8
iter = 10117, queue = 15386, heur = -8.0, depth = 8
iter = 10118, queue = 15386, heur = -8.0, depth = 8
iter = 10119, queue = 15386, heur = -8.0, depth = 8
iter = 10120, queue = 15386, heur = -8.0, depth = 8
iter = 10121, queue = 15385, heur = -8.0, depth = 8
iter = 10122, queue = 15388, heur = -8.0, depth = 8
iter = 10123, queue = 15391, heur = -8.0, depth = 8
iter = 10124, queue = 15390, heur = -8.0, depth = 8
iter = 10125, queue = 15392, heur = -8.0, depth = 8
iter = 10126, queue = 15392, heur = -8.0, depth = 8
iter = 10127, queue = 15392, heur = -8.0, depth = 8
iter = 10128, queue = 15395, heur = -8.0, depth = 8
iter = 10129, queue = 15394, heur = -8.0, depth = 8
iter = 10130, queue = 15395, heur = -8.0, depth = 8
iter = 10131, queue = 15396, heur = -8.0, depth = 8
iter = 10132, queue = 15397, heur = -8.0, depth = 8
iter = 10133, queue = 15397, heur = -8.0, depth = 8
iter = 10134, queue = 15398, heur = -8.0, depth = 8
iter = 10135, queue = 15401, heur = -8.0, depth = 8
iter = 10136, queue = 15404, heur = -8.0, depth = 8
iter = 10137, queue = 15406, heur = -8.0, depth = 9
iter = 10138, queue = 15408, heur = -8.0, depth = 8
iter = 10139, queue = 15410, heur = -8.0, depth = 8
iter = 10140, queue = 15413, heur = -8.0, depth = 8
iter = 10141, queue = 15416, heur = -8.0, depth = 8
iter = 10142, queue = 15417, heur = -8.0, depth = 9
iter = 10143, queue = 15419, heur = -8.0, depth = 9
iter = 10144, queue = 15422, heur = -8.0, depth = 8
iter = 10145, queue = 15423, heur = -8.0, depth = 9
iter = 10146, queue = 15423, heur = -8.0, depth = 9
```

```
iter = 10147, queue = 15424, heur = -8.0, depth = 8
iter = 10148, queue = 15427, heur = -8.0, depth = 8
iter = 10149, queue = 15428, heur = -8.0, depth = 9
iter = 10150, queue = 15429, heur = -8.0, depth = 8
iter = 10151, queue = 15431, heur = -8.0, depth = 8
iter = 10152, queue = 15432, heur = -8.0, depth = 8
iter = 10153, queue = 15433, heur = -8.0, depth = 8
iter = 10154, queue = 15434, heur = -8.0, depth = 8
iter = 10155, queue = 15435, heur = -8.0, depth = 8
iter = 10156, queue = 15435, heur = -8.0, depth = 8
iter = 10157, queue = 15435, heur = -8.0, depth = 8
iter = 10158, queue = 15436, heur = -8.0, depth = 8
iter = 10159, queue = 15439, heur = -8.0, depth = 9
iter = 10160, queue = 15438, heur = -8.0, depth = 8
iter = 10161, queue = 15440, heur = -8.0, depth = 8
iter = 10162, queue = 15440, heur = -8.0, depth = 8
iter = 10163, queue = 15440, heur = -8.0, depth = 8
iter = 10164, queue = 15441, heur = -8.0, depth = 8
iter = 10165, queue = 15442, heur = -8.0, depth = 8
iter = 10166, queue = 15443, heur = -8.0, depth = 8
iter = 10167, queue = 15444, heur = -8.0, depth = 8
iter = 10168, queue = 15447, heur = -8.0, depth = 8
iter = 10169, queue = 15450, heur = -8.0, depth = 8
iter = 10170, queue = 15452, heur = -8.0, depth = 8
iter = 10171, queue = 15453, heur = -8.0, depth = 8
iter = 10172, queue = 15454, heur = -8.0, depth = 8
iter = 10173, queue = 15454, heur = -8.0, depth = 8
iter = 10174, queue = 15455, heur = -8.0, depth = 8
iter = 10175, queue = 15454, heur = -8.0, depth = 8
iter = 10176, queue = 15455, heur = -8.0, depth = 8
iter = 10177, queue = 15456, heur = -8.0, depth = 8
iter = 10178, queue = 15457, heur = -8.0, depth = 8
iter = 10179, queue = 15458, heur = -8.0, depth = 8
iter = 10180, queue = 15459, heur = -8.0, depth = 8
iter = 10181, queue = 15462, heur = -8.0, depth = 9
iter = 10182, queue = 15465, heur = -8.0, depth = 8
iter = 10183, queue = 15466, heur = -8.0, depth = 10
iter = 10184, queue = 15469, heur = -8.0, depth = 9
iter = 10185, queue = 15470, heur = -8.0, depth = 8
iter = 10186, queue = 15473, heur = -8.0, depth = 8
iter = 10187, queue = 15475, heur = -8.0, depth = 8
iter = 10188, queue = 15476, heur = -8.0, depth = 9
iter = 10189, queue = 15475, heur = -8.0, depth = 9
iter = 10190, queue = 15476, heur = -8.0, depth = 8
iter = 10191, queue = 15475, heur = -8.0, depth = 8
iter = 10192, queue = 15477, heur = -8.0, depth = 8
iter = 10193, queue = 15480, heur = -8.0, depth = 8
iter = 10194, queue = 15480, heur = -8.0, depth = 8
iter = 10195, queue = 15480, heur = -8.0, depth = 8
iter = 10196, queue = 15483, heur = -8.0, depth = 8
iter = 10197, queue = 15485, heur = -8.0, depth = 8
iter = 10198, queue = 15484, heur = -8.0, depth = 8
iter = 10199, queue = 15487, heur = -8.0, depth = 8
iter = 10200, queue = 15490, heur = -8.0, depth = 8
iter = 10201, queue = 15491, heur = -8.0, depth = 8
iter = 10202, queue = 15493, heur = -8.0, depth = 8
iter = 10203, queue = 15494, heur = -8.0, depth = 8
iter = 10204, queue = 15495, heur = -8.0, depth = 8
iter = 10205, queue = 15497, heur = -8.0, depth = 8
```

```
iter = 10206, queue = 15498, heur = -8.0, depth = 8
iter = 10207, queue = 15498, heur = -8.0, depth = 8
iter = 10208, queue = 15501, heur = -8.0, depth = 8
iter = 10209, queue = 15502, heur = -8.0, depth = 8
iter = 10210, queue = 15503, heur = -8.0, depth = 8
iter = 10211, queue = 15504, heur = -8.0, depth = 9
iter = 10212, queue = 15503, heur = -8.0, depth = 9
iter = 10213, queue = 15504, heur = -8.0, depth = 8
iter = 10214, queue = 15507, heur = -8.0, depth = 8
iter = 10215, queue = 15508, heur = -8.0, depth = 8
iter = 10216, queue = 15509, heur = -8.0, depth = 8
iter = 10217, queue = 15511, heur = -8.0, depth = 8
iter = 10218, queue = 15512, heur = -8.0, depth = 8
iter = 10219, queue = 15515, heur = -8.0, depth = 8
iter = 10220, queue = 15516, heur = -8.0, depth = 8
iter = 10221, queue = 15519, heur = -8.0, depth = 8
iter = 10222, queue = 15520, heur = -8.0, depth = 8
iter = 10223, queue = 15521, heur = -8.0, depth = 8
iter = 10224, queue = 15521, heur = -8.0, depth = 8
iter = 10225, queue = 15523, heur = -8.0, depth = 8
iter = 10226, queue = 15522, heur = -8.0, depth = 8
iter = 10227, queue = 15523, heur = -8.0, depth = 8
iter = 10228, queue = 15522, heur = -8.0, depth = 8
iter = 10229, queue = 15523, heur = -8.0, depth = 8
iter = 10230, queue = 15524, heur = -8.0, depth = 8
iter = 10231, queue = 15525, heur = -8.0, depth = 8
iter = 10232, queue = 15526, heur = -8.0, depth = 8
iter = 10233, queue = 15529, heur = -8.0, depth = 8
iter = 10234, queue = 15530, heur = -8.0, depth = 8
iter = 10235, queue = 15531, heur = -8.0, depth = 8
iter = 10236, queue = 15534, heur = -8.0, depth = 8
iter = 10237, queue = 15535, heur = -8.0, depth = 8
iter = 10238, queue = 15536, heur = -8.0, depth = 8
iter = 10239, queue = 15537, heur = -8.0, depth = 8
iter = 10240, queue = 15536, heur = -8.0, depth = 8
iter = 10241, queue = 15535, heur = -8.0, depth = 8
iter = 10242, queue = 15536, heur = -8.0, depth = 8
iter = 10243, queue = 15538, heur = -8.0, depth = 8
iter = 10244, queue = 15541, heur = -8.0, depth = 8
iter = 10245, queue = 15544, heur = -8.0, depth = 8
iter = 10246, queue = 15547, heur = -8.0, depth = 8
iter = 10247, queue = 15547, heur = -8.0, depth = 8
iter = 10248, queue = 15550, heur = -8.0, depth = 8
iter = 10249, queue = 15549, heur = -8.0, depth = 8
iter = 10250, queue = 15548, heur = -8.0, depth = 8
iter = 10251, queue = 15551, heur = -8.0, depth = 8
iter = 10252, queue = 15551, heur = -8.0, depth = 8
iter = 10253, queue = 15554, heur = -8.0, depth = 8
iter = 10254, queue = 15555, heur = -8.0, depth = 8
iter = 10255, queue = 15558, heur = -8.0, depth = 8
iter = 10256, queue = 15561, heur = -8.0, depth = 8
iter = 10257, queue = 15563, heur = -8.0, depth = 8
iter = 10258, queue = 15562, heur = -8.0, depth = 8
iter = 10259, queue = 15562, heur = -8.0, depth = 8
iter = 10260, queue = 15563, heur = -8.0, depth = 8
iter = 10261, queue = 15564, heur = -8.0, depth = 8
iter = 10262, queue = 15565, heur = -8.0, depth = 8
iter = 10263, queue = 15565, heur = -8.0, depth = 8
iter = 10264, queue = 15564, heur = -8.0, depth = 9
```

```
iter = 10265, queue = 15566, heur = -8.0, depth = 8
iter = 10266, queue = 15565, heur = -8.0, depth = 8
iter = 10267, queue = 15566, heur = -8.0, depth = 8
iter = 10268, queue = 15569, heur = -8.0, depth = 8
iter = 10269, queue = 15571, heur = -8.0, depth = 8
iter = 10270, queue = 15572, heur = -8.0, depth = 8
iter = 10271, queue = 15575, heur = -8.0, depth = 8
iter = 10272, queue = 15577, heur = -8.0, depth = 8
iter = 10273, queue = 15578, heur = -8.0, depth = 8
iter = 10274, queue = 15579, heur = -8.0, depth = 8
iter = 10275, queue = 15582, heur = -8.0, depth = 8
iter = 10276, queue = 15581, heur = -8.0, depth = 8
iter = 10277, queue = 15583, heur = -8.0, depth = 8
iter = 10278, queue = 15585, heur = -8.0, depth = 9
iter = 10279, queue = 15587, heur = -8.0, depth = 8
iter = 10280, queue = 15587, heur = -8.0, depth = 8
iter = 10281, queue = 15588, heur = -8.0, depth = 8
iter = 10282, queue = 15589, heur = -8.0, depth = 8
iter = 10283, queue = 15588, heur = -8.0, depth = 8
iter = 10284, queue = 15589, heur = -8.0, depth = 8
iter = 10285, queue = 15588, heur = -8.0, depth = 9
iter = 10286, queue = 15588, heur = -8.0, depth = 8
iter = 10287, queue = 15589, heur = -8.0, depth = 8
iter = 10288, queue = 15590, heur = -8.0, depth = 8
iter = 10289, queue = 15591, heur = -8.0, depth = 8
iter = 10290, queue = 15592, heur = -8.0, depth = 8
iter = 10291, queue = 15594, heur = -8.0, depth = 8
iter = 10292, queue = 15595, heur = -8.0, depth = 8
iter = 10293, queue = 15596, heur = -8.0, depth = 8
iter = 10294, queue = 15595, heur = -8.0, depth = 8
iter = 10295, queue = 15594, heur = -8.0, depth = 8
iter = 10296, queue = 15595, heur = -8.0, depth = 8
iter = 10297, queue = 15596, heur = -8.0, depth = 8
iter = 10298, queue = 15597, heur = -8.0, depth = 9
iter = 10299, queue = 15600, heur = -8.0, depth = 8
iter = 10300, queue = 15601, heur = -8.0, depth = 8
iter = 10301, queue = 15602, heur = -8.0, depth = 8
iter = 10302, queue = 15603, heur = -8.0, depth = 8
iter = 10303, queue = 15606, heur = -8.0, depth = 8
iter = 10304, queue = 15607, heur = -8.0, depth = 8
iter = 10305, queue = 15607, heur = -8.0, depth = 8
iter = 10306, queue = 15608, heur = -8.0, depth = 8
iter = 10307, queue = 15609, heur = -8.0, depth = 8
iter = 10308, queue = 15608, heur = -8.0, depth = 8
iter = 10309, queue = 15609, heur = -8.0, depth = 8
iter = 10310, queue = 15609, heur = -8.0, depth = 8
iter = 10311, queue = 15610, heur = -8.0, depth = 8
iter = 10312, queue = 15610, heur = -8.0, depth = 8
iter = 10313, queue = 15612, heur = -8.0, depth = 8
iter = 10314, queue = 15615, heur = -8.0, depth = 8
iter = 10315, queue = 15616, heur = -8.0, depth = 8
iter = 10316, queue = 15617, heur = -8.0, depth = 8
iter = 10317, queue = 15618, heur = -8.0, depth = 8
iter = 10318, queue = 15619, heur = -8.0, depth = 8
iter = 10319, queue = 15618, heur = -8.0, depth = 8
iter = 10320, queue = 15619, heur = -8.0, depth = 8
iter = 10321, queue = 15619, heur = -8.0, depth = 8
iter = 10322, queue = 15619, heur = -8.0, depth = 8
iter = 10323, queue = 15621, heur = -8.0, depth = 8
```

```
iter = 10324, queue = 15624, heur = -8.0, depth = 8
iter = 10325, queue = 15627, heur = -8.0, depth = 8
iter = 10326, queue = 15627, heur = -8.0, depth = 8
iter = 10327, queue = 15627, heur = -8.0, depth = 8
iter = 10328, queue = 15630, heur = -8.0, depth = 8
iter = 10329, queue = 15630, heur = -8.0, depth = 8
iter = 10330, queue = 15630, heur = -8.0, depth = 8
iter = 10331, queue = 15631, heur = -8.0, depth = 8
iter = 10332, queue = 15632, heur = -8.0, depth = 8
iter = 10333, queue = 15633, heur = -8.0, depth = 8
iter = 10334, queue = 15635, heur = -8.0, depth = 8
iter = 10335, queue = 15635, heur = -8.0, depth = 8
iter = 10336, queue = 15634, heur = -8.0, depth = 8
iter = 10337, queue = 15635, heur = -8.0, depth = 8
iter = 10338, queue = 15638, heur = -8.0, depth = 8
iter = 10339, queue = 15637, heur = -8.0, depth = 8
iter = 10340, queue = 15637, heur = -8.0, depth = 8
iter = 10341, queue = 15637, heur = -8.0, depth = 8
iter = 10342, queue = 15636, heur = -8.0, depth = 8
iter = 10343, queue = 15638, heur = -8.0, depth = 8
iter = 10344, queue = 15639, heur = -8.0, depth = 8
iter = 10345, queue = 15638, heur = -8.0, depth = 8
iter = 10346, queue = 15640, heur = -8.0, depth = 8
iter = 10347, queue = 15643, heur = -8.0, depth = 8
iter = 10348, queue = 15644, heur = -8.0, depth = 8
iter = 10349, queue = 15645, heur = -8.0, depth = 8
iter = 10350, queue = 15644, heur = -8.0, depth = 8
iter = 10351, queue = 15643, heur = -8.0, depth = 8
iter = 10352, queue = 15645, heur = -8.0, depth = 8
iter = 10353, queue = 15648, heur = -8.0, depth = 8
iter = 10354, queue = 15649, heur = -8.0, depth = 8
iter = 10355, queue = 15651, heur = -8.0, depth = 8
iter = 10356, queue = 15650, heur = -8.0, depth = 8
iter = 10357, queue = 15650, heur = -8.0, depth = 8
iter = 10358, queue = 15653, heur = -8.0, depth = 8
iter = 10359, queue = 15654, heur = -8.0, depth = 8
iter = 10360, queue = 15655, heur = -8.0, depth = 8
iter = 10361, queue = 15655, heur = -8.0, depth = 8
iter = 10362, queue = 15654, heur = -8.0, depth = 8
iter = 10363, queue = 15653, heur = -8.0, depth = 8
iter = 10364, queue = 15655, heur = -8.0, depth = 8
iter = 10365, queue = 15656, heur = -8.0, depth = 8
iter = 10366, queue = 15657, heur = -8.0, depth = 8
iter = 10367, queue = 15658, heur = -8.0, depth = 8
iter = 10368, queue = 15657, heur = -8.0, depth = 8
iter = 10369, queue = 15656, heur = -8.0, depth = 8
iter = 10370, queue = 15657, heur = -8.0, depth = 8
iter = 10371, queue = 15659, heur = -8.0, depth = 8
iter = 10372, queue = 15660, heur = -8.0, depth = 8
iter = 10373, queue = 15661, heur = -8.0, depth = 8
iter = 10374, queue = 15661, heur = -8.0, depth = 8
iter = 10375, queue = 15662, heur = -8.0, depth = 8
iter = 10376, queue = 15661, heur = -8.0, depth = 8
iter = 10377, queue = 15664, heur = -8.0, depth = 8
iter = 10378, queue = 15665, heur = -8.0, depth = 8
iter = 10379, queue = 15664, heur = -8.0, depth = 8
iter = 10380, queue = 15665, heur = -8.0, depth = 8
iter = 10381, queue = 15664, heur = -8.0, depth = 8
iter = 10382, queue = 15667, heur = -8.0, depth = 8
```

```
iter = 10383, queue = 15668, heur = -8.0, depth = 8
iter = 10384, queue = 15671, heur = -8.0, depth = 8
iter = 10385, queue = 15671, heur = -8.0, depth = 8
iter = 10386, queue = 15673, heur = -8.0, depth = 8
iter = 10387, queue = 15676, heur = -8.0, depth = 8
iter = 10388, queue = 15679, heur = -8.0, depth = 8
iter = 10389, queue = 15680, heur = -8.0, depth = 8
iter = 10390, queue = 15680, heur = -8.0, depth = 9
iter = 10391, queue = 15681, heur = -8.0, depth = 8
iter = 10392, queue = 15683, heur = -8.0, depth = 8
iter = 10393, queue = 15684, heur = -8.0, depth = 8
iter = 10394, queue = 15685, heur = -8.0, depth = 8
iter = 10395, queue = 15686, heur = -8.0, depth = 9
iter = 10396, queue = 15686, heur = -8.0, depth = 8
iter = 10397, queue = 15687, heur = -8.0, depth = 8
iter = 10398, queue = 15689, heur = -8.0, depth = 8
iter = 10399, queue = 15690, heur = -8.0, depth = 8
iter = 10400, queue = 15691, heur = -8.0, depth = 8
iter = 10401, queue = 15690, heur = -8.0, depth = 9
iter = 10402, queue = 15691, heur = -8.0, depth = 8
iter = 10403, queue = 15692, heur = -8.0, depth = 8
iter = 10404, queue = 15693, heur = -8.0, depth = 8
iter = 10405, queue = 15696, heur = -8.0, depth = 8
iter = 10406, queue = 15696, heur = -8.0, depth = 10
iter = 10407, queue = 15697, heur = -8.0, depth = 8
iter = 10408, queue = 15698, heur = -8.0, depth = 8
iter = 10409, queue = 15699, heur = -8.0, depth = 8
iter = 10410, queue = 15702, heur = -8.0, depth = 10
iter = 10411, queue = 15701, heur = -8.0, depth = 8
iter = 10412, queue = 15702, heur = -8.0, depth = 8
iter = 10413, queue = 15705, heur = -8.0, depth = 8
iter = 10414, queue = 15708, heur = -8.0, depth = 8
iter = 10415, queue = 15708, heur = -8.0, depth = 10
iter = 10416, queue = 15709, heur = -8.0, depth = 8
iter = 10417, queue = 15710, heur = -8.0, depth = 8
iter = 10418, queue = 15710, heur = -8.0, depth = 8
iter = 10419, queue = 15713, heur = -8.0, depth = 8
iter = 10420, queue = 15714, heur = -8.0, depth = 9
iter = 10421, queue = 15715, heur = -8.0, depth = 8
iter = 10422, queue = 15716, heur = -8.0, depth = 8
iter = 10423, queue = 15717, heur = -8.0, depth = 8
iter = 10424, queue = 15719, heur = -8.0, depth = 9
iter = 10425, queue = 15721, heur = -8.0, depth = 8
iter = 10426, queue = 15723, heur = -8.0, depth = 8
iter = 10427, queue = 15724, heur = -8.0, depth = 8
iter = 10428, queue = 15723, heur = -8.0, depth = 8
iter = 10429, queue = 15724, heur = -8.0, depth = 9
iter = 10430, queue = 15724, heur = -8.0, depth = 9
iter = 10431, queue = 15727, heur = -8.0, depth = 8
iter = 10432, queue = 15726, heur = -8.0, depth = 8
iter = 10433, queue = 15727, heur = -8.0, depth = 9
iter = 10434, queue = 15727, heur = -8.0, depth = 9
iter = 10435, queue = 15728, heur = -8.0, depth = 8
iter = 10436, queue = 15728, heur = -8.0, depth = 8
iter = 10437, queue = 15728, heur = -8.0, depth = 8
iter = 10438, queue = 15728, heur = -8.0, depth = 8
iter = 10439, queue = 15729, heur = -8.0, depth = 8
iter = 10440, queue = 15730, heur = -8.0, depth = 8
iter = 10441, queue = 15731, heur = -8.0, depth = 8
```

```
iter = 10442, queue = 15730, heur = -8.0, depth = 8
iter = 10443, queue = 15730, heur = -8.0, depth = 8
iter = 10444, queue = 15729, heur = -8.0, depth = 8
iter = 10445, queue = 15730, heur = -8.0, depth = 8
iter = 10446, queue = 15729, heur = -8.0, depth = 8
iter = 10447, queue = 15730, heur = -8.0, depth = 9
iter = 10448, queue = 15731, heur = -8.0, depth = 8
iter = 10449, queue = 15731, heur = -8.0, depth = 8
iter = 10450, queue = 15733, heur = -8.0, depth = 8
iter = 10451, queue = 15733, heur = -8.0, depth = 8
iter = 10452, queue = 15734, heur = -8.0, depth = 8
iter = 10453, queue = 15736, heur = -8.0, depth = 8
iter = 10454, queue = 15737, heur = -8.0, depth = 8
iter = 10455, queue = 15739, heur = -8.0, depth = 8
iter = 10456, queue = 15740, heur = -8.0, depth = 8
iter = 10457, queue = 15740, heur = -8.0, depth = 8
iter = 10458, queue = 15742, heur = -8.0, depth = 8
iter = 10459, queue = 15744, heur = -8.0, depth = 8
iter = 10460, queue = 15745, heur = -8.0, depth = 8
iter = 10461, queue = 15747, heur = -8.0, depth = 8
iter = 10462, queue = 15748, heur = -8.0, depth = 8
iter = 10463, queue = 15750, heur = -8.0, depth = 8
iter = 10464, queue = 15750, heur = -8.0, depth = 12
iter = 10465, queue = 15752, heur = -8.0, depth = 8
iter = 10466, queue = 15752, heur = -8.0, depth = 8
iter = 10467, queue = 15753, heur = -8.0, depth = 8
iter = 10468, queue = 15753, heur = -8.0, depth = 8
iter = 10469, queue = 15752, heur = -8.0, depth = 8
iter = 10470, queue = 15751, heur = -8.0, depth = 8
iter = 10471, queue = 15752, heur = -8.0, depth = 8
iter = 10472, queue = 15751, heur = -8.0, depth = 8
iter = 10473, queue = 15750, heur = -8.0, depth = 8
iter = 10474, queue = 15751, heur = -8.0, depth = 8
iter = 10475, queue = 15752, heur = -8.0, depth = 8
iter = 10476, queue = 15751, heur = -8.0, depth = 8
iter = 10477, queue = 15752, heur = -8.0, depth = 8
iter = 10478, queue = 15753, heur = -9.0, depth = 9
iter = 10479, queue = 15754, heur = -9.0, depth = 9
iter = 10480, queue = 15755, heur = -9.0, depth = 9
iter = 10481, queue = 15755, heur = -9.0, depth = 10
iter = 10482, queue = 15757, heur = -9.0, depth = 9
iter = 10483, queue = 15758, heur = -9.0, depth = 9
iter = 10484, queue = 15757, heur = -9.0, depth = 9
iter = 10485, queue = 15756, heur = -9.0, depth = 9
iter = 10486, queue = 15759, heur = -9.0, depth = 9
iter = 10487, queue = 15760, heur = -9.0, depth = 10
iter = 10488, queue = 15761, heur = -9.0, depth = 10
iter = 10489, queue = 15762, heur = -9.0, depth = 12
iter = 10490, queue = 15762, heur = -9.0, depth = 9
iter = 10491, queue = 15765, heur = -9.0, depth = 9
iter = 10492, queue = 15768, heur = -9.0, depth = 9
iter = 10493, queue = 15768, heur = -9.0, depth = 9
iter = 10494, queue = 15769, heur = -9.0, depth = 11
iter = 10495, queue = 15770, heur = -9.0, depth = 9
iter = 10496, queue = 15770, heur = -9.0, depth = 9
iter = 10497, queue = 15771, heur = -9.0, depth = 11
iter = 10498, queue = 15772, heur = -9.0, depth = 11
iter = 10499, queue = 15775, heur = -9.0, depth = 9
iter = 10500, queue = 15776, heur = -9.0, depth = 11
```

```
iter = 10501, queue = 15777, heur = -9.0, depth = 9
iter = 10502, queue = 15780, heur = -9.0, depth = 9
iter = 10503, queue = 15781, heur = -9.0, depth = 9
iter = 10504, queue = 15783, heur = -9.0, depth = 9
iter = 10505, queue = 15784, heur = -9.0, depth = 9
iter = 10506, queue = 15785, heur = -9.0, depth = 10
iter = 10507, queue = 15786, heur = -9.0, depth = 9
iter = 10508, queue = 15787, heur = -9.0, depth = 10
iter = 10509, queue = 15790, heur = -9.0, depth = 9
iter = 10510, queue = 15793, heur = -9.0, depth = 9
iter = 10511, queue = 15795, heur = -9.0, depth = 9
iter = 10512, queue = 15794, heur = -9.0, depth = 9
iter = 10513, queue = 15795, heur = -9.0, depth = 9
iter = 10514, queue = 15796, heur = -9.0, depth = 9
iter = 10515, queue = 15797, heur = -9.0, depth = 9
iter = 10516, queue = 15800, heur = -9.0, depth = 9
iter = 10517, queue = 15802, heur = -9.0, depth = 9
iter = 10518, queue = 15801, heur = -9.0, depth = 9
iter = 10519, queue = 15800, heur = -9.0, depth = 9
iter = 10520, queue = 15802, heur = -9.0, depth = 9
iter = 10521, queue = 15804, heur = -9.0, depth = 9
iter = 10522, queue = 15805, heur = -9.0, depth = 9
iter = 10523, queue = 15808, heur = -9.0, depth = 9
iter = 10524, queue = 15809, heur = -9.0, depth = 9
iter = 10525, queue = 15812, heur = -9.0, depth = 9
iter = 10526, queue = 15812, heur = -9.0, depth = 9
iter = 10527, queue = 15814, heur = -9.0, depth = 9
iter = 10528, queue = 15813, heur = -9.0, depth = 9
iter = 10529, queue = 15813, heur = -9.0, depth = 9
iter = 10530, queue = 15815, heur = -9.0, depth = 9
iter = 10531, queue = 15818, heur = -9.0, depth = 9
iter = 10532, queue = 15818, heur = -9.0, depth = 9
iter = 10533, queue = 15821, heur = -9.0, depth = 9
iter = 10534, queue = 15822, heur = -9.0, depth = 9
iter = 10535, queue = 15825, heur = -9.0, depth = 9
iter = 10536, queue = 15826, heur = -9.0, depth = 9
iter = 10537, queue = 15826, heur = -9.0, depth = 9
iter = 10538, queue = 15827, heur = -9.0, depth = 9
iter = 10539, queue = 15829, heur = -9.0, depth = 9
iter = 10540, queue = 15830, heur = -9.0, depth = 9
iter = 10541, queue = 15831, heur = -9.0, depth = 9
iter = 10542, queue = 15830, heur = -9.0, depth = 9
iter = 10543, queue = 15829, heur = -9.0, depth = 9
iter = 10544, queue = 15830, heur = -9.0, depth = 9
iter = 10545, queue = 15833, heur = -9.0, depth = 9
iter = 10546, queue = 15832, heur = -9.0, depth = 9
iter = 10547, queue = 15834, heur = -9.0, depth = 9
iter = 10548, queue = 15836, heur = -9.0, depth = 9
iter = 10549, queue = 15838, heur = -9.0, depth = 9
iter = 10550, queue = 15837, heur = -9.0, depth = 9
iter = 10551, queue = 15839, heur = -9.0, depth = 9
iter = 10552, queue = 15840, heur = -9.0, depth = 9
iter = 10553, queue = 15840, heur = -9.0, depth = 9
iter = 10554, queue = 15842, heur = -9.0, depth = 9
iter = 10555, queue = 15843, heur = -9.0, depth = 9
iter = 10556, queue = 15842, heur = -9.0, depth = 9
iter = 10557, queue = 15843, heur = -9.0, depth = 9
iter = 10558, queue = 15844, heur = -9.0, depth = 9
iter = 10559, queue = 15846, heur = -9.0, depth = 9
```

```
iter = 10560, queue = 15849, heur = -9.0, depth = 9
iter = 10561, queue = 15852, heur = -9.0, depth = 9
iter = 10562, queue = 15855, heur = -9.0, depth = 9
iter = 10563, queue = 15857, heur = -9.0, depth = 9
iter = 10564, queue = 15859, heur = -9.0, depth = 9
iter = 10565, queue = 15862, heur = -9.0, depth = 9
iter = 10566, queue = 15863, heur = -9.0, depth = 9
iter = 10567, queue = 15863, heur = -9.0, depth = 9
iter = 10568, queue = 15864, heur = -9.0, depth = 9
iter = 10569, queue = 15867, heur = -9.0, depth = 10
iter = 10570, queue = 15870, heur = -9.0, depth = 10
iter = 10571, queue = 15873, heur = -9.0, depth = 10
iter = 10572, queue = 15874, heur = -9.0, depth = 10
iter = 10573, queue = 15875, heur = -9.0, depth = 9
iter = 10574, queue = 15876, heur = -9.0, depth = 9
iter = 10575, queue = 15875, heur = -9.0, depth = 10
iter = 10576, queue = 15876, heur = -9.0, depth = 9
iter = 10577, queue = 15875, heur = -9.0, depth = 9
iter = 10578, queue = 15876, heur = -9.0, depth = 9
iter = 10579, queue = 15875, heur = -9.0, depth = 9
iter = 10580, queue = 15876, heur = -9.0, depth = 9
iter = 10581, queue = 15877, heur = -9.0, depth = 9
iter = 10582, queue = 15876, heur = -9.0, depth = 9
iter = 10583, queue = 15878, heur = -9.0, depth = 9
iter = 10584, queue = 15880, heur = -9.0, depth = 9
iter = 10585, queue = 15879, heur = -9.0, depth = 9
iter = 10586, queue = 15880, heur = -9.0, depth = 9
iter = 10587, queue = 15881, heur = -9.0, depth = 9
iter = 10588, queue = 15882, heur = -9.0, depth = 9
iter = 10589, queue = 15881, heur = -9.0, depth = 9
iter = 10590, queue = 15883, heur = -9.0, depth = 9
iter = 10591, queue = 15885, heur = -9.0, depth = 9
iter = 10592, queue = 15888, heur = -9.0, depth = 10
iter = 10593, queue = 15891, heur = -9.0, depth = 10
iter = 10594, queue = 15894, heur = -9.0, depth = 9
iter = 10595, queue = 15895, heur = -9.0, depth = 10
iter = 10596, queue = 15898, heur = -9.0, depth = 9
iter = 10597, queue = 15899, heur = -9.0, depth = 10
iter = 10598, queue = 15902, heur = -9.0, depth = 10
iter = 10599, queue = 15905, heur = -9.0, depth = 9
iter = 10600, queue = 15905, heur = -9.0, depth = 9
iter = 10601, queue = 15906, heur = -9.0, depth = 9
iter = 10602, queue = 15906, heur = -9.0, depth = 9
iter = 10603, queue = 15906, heur = -9.0, depth = 10
iter = 10604, queue = 15908, heur = -9.0, depth = 9
iter = 10605, queue = 15909, heur = -9.0, depth = 9
iter = 10606, queue = 15910, heur = -9.0, depth = 10
iter = 10607, queue = 15913, heur = -9.0, depth = 9
iter = 10608, queue = 15914, heur = -9.0, depth = 9
iter = 10609, queue = 15917, heur = -9.0, depth = 9
iter = 10610, queue = 15920, heur = -9.0, depth = 10
iter = 10611, queue = 15921, heur = -9.0, depth = 9
iter = 10612, queue = 15924, heur = -9.0, depth = 9
iter = 10613, queue = 15926, heur = -9.0, depth = 9
iter = 10614, queue = 15927, heur = -9.0, depth = 9
iter = 10615, queue = 15928, heur = -9.0, depth = 9
iter = 10616, queue = 15929, heur = -9.0, depth = 9
iter = 10617, queue = 15930, heur = -9.0, depth = 9
iter = 10618, queue = 15931, heur = -9.0, depth = 9
```

```
iter = 10619, queue = 15931, heur = -9.0, depth = 9
iter = 10620, queue = 15932, heur = -9.0, depth = 9
iter = 10621, queue = 15935, heur = -9.0, depth = 9
iter = 10622, queue = 15937, heur = -9.0, depth = 9
iter = 10623, queue = 15938, heur = -9.0, depth = 9
iter = 10624, queue = 15939, heur = -9.0, depth = 10
iter = 10625, queue = 15941, heur = -9.0, depth = 10
iter = 10626, queue = 15943, heur = -9.0, depth = 10
iter = 10627, queue = 15944, heur = -9.0, depth = 9
iter = 10628, queue = 15945, heur = -9.0, depth = 9
iter = 10629, queue = 15947, heur = -9.0, depth = 9
iter = 10630, queue = 15950, heur = -9.0, depth = 10
iter = 10631, queue = 15953, heur = -9.0, depth = 9
iter = 10632, queue = 15954, heur = -9.0, depth = 9
iter = 10633, queue = 15953, heur = -9.0, depth = 9
iter = 10634, queue = 15954, heur = -9.0, depth = 9
iter = 10635, queue = 15954, heur = -9.0, depth = 9
iter = 10636, queue = 15956, heur = -9.0, depth = 9
iter = 10637, queue = 15958, heur = -9.0, depth = 9
iter = 10638, queue = 15961, heur = -9.0, depth = 9
iter = 10639, queue = 15962, heur = -9.0, depth = 9
iter = 10640, queue = 15963, heur = -9.0, depth = 9
iter = 10641, queue = 15966, heur = -9.0, depth = 9
iter = 10642, queue = 15967, heur = -9.0, depth = 9
iter = 10643, queue = 15969, heur = -9.0, depth = 9
iter = 10644, queue = 15972, heur = -9.0, depth = 10
iter = 10645, queue = 15974, heur = -9.0, depth = 9
iter = 10646, queue = 15975, heur = -9.0, depth = 9
iter = 10647, queue = 15976, heur = -9.0, depth = 9
iter = 10648, queue = 15975, heur = -9.0, depth = 9
iter = 10649, queue = 15977, heur = -9.0, depth = 9
iter = 10650, queue = 15978, heur = -9.0, depth = 9
iter = 10651, queue = 15979, heur = -9.0, depth = 9
iter = 10652, queue = 15980, heur = -9.0, depth = 10
iter = 10653, queue = 15980, heur = -9.0, depth = 9
iter = 10654, queue = 15983, heur = -9.0, depth = 9
iter = 10655, queue = 15984, heur = -9.0, depth = 9
iter = 10656, queue = 15986, heur = -9.0, depth = 9
iter = 10657, queue = 15988, heur = -9.0, depth = 9
iter = 10658, queue = 15991, heur = -9.0, depth = 9
iter = 10659, queue = 15990, heur = -9.0, depth = 9
iter = 10660, queue = 15993, heur = -9.0, depth = 9
iter = 10661, queue = 15994, heur = -9.0, depth = 9
iter = 10662, queue = 15995, heur = -9.0, depth = 9
iter = 10663, queue = 15997, heur = -9.0, depth = 9
iter = 10664, queue = 15998, heur = -9.0, depth = 9
iter = 10665, queue = 15997, heur = -9.0, depth = 9
iter = 10666, queue = 16000, heur = -9.0, depth = 9
iter = 10667, queue = 16002, heur = -9.0, depth = 9
iter = 10668, queue = 16004, heur = -9.0, depth = 9
iter = 10669, queue = 16005, heur = -9.0, depth = 9
iter = 10670, queue = 16008, heur = -9.0, depth = 9
iter = 10671, queue = 16007, heur = -9.0, depth = 9
iter = 10672, queue = 16006, heur = -9.0, depth = 9
iter = 10673, queue = 16007, heur = -9.0, depth = 9
iter = 10674, queue = 16009, heur = -9.0, depth = 10
iter = 10675, queue = 16012, heur = -9.0, depth = 10
iter = 10676, queue = 16013, heur = -9.0, depth = 9
iter = 10677, queue = 16015, heur = -9.0, depth = 10
```

```
iter = 10678, queue = 16018, heur = -9.0, depth = 9
iter = 10679, queue = 16019, heur = -9.0, depth = 9
iter = 10680, queue = 16019, heur = -9.0, depth = 9
iter = 10681, queue = 16021, heur = -9.0, depth = 9
iter = 10682, queue = 16023, heur = -9.0, depth = 9
iter = 10683, queue = 16024, heur = -9.0, depth = 9
iter = 10684, queue = 16025, heur = -9.0, depth = 10
iter = 10685, queue = 16027, heur = -9.0, depth = 9
iter = 10686, queue = 16030, heur = -9.0, depth = 9
iter = 10687, queue = 16032, heur = -9.0, depth = 9
iter = 10688, queue = 16034, heur = -9.0, depth = 9
iter = 10689, queue = 16035, heur = -9.0, depth = 9
iter = 10690, queue = 16035, heur = -9.0, depth = 9
iter = 10691, queue = 16036, heur = -9.0, depth = 9
iter = 10692, queue = 16038, heur = -9.0, depth = 10
iter = 10693, queue = 16039, heur = -9.0, depth = 9
iter = 10694, queue = 16040, heur = -9.0, depth = 10
iter = 10695, queue = 16041, heur = -9.0, depth = 9
iter = 10696, queue = 16042, heur = -9.0, depth = 9
iter = 10697, queue = 16043, heur = -9.0, depth = 9
iter = 10698, queue = 16044, heur = -9.0, depth = 9
iter = 10699, queue = 16045, heur = -9.0, depth = 9
iter = 10700, queue = 16046, heur = -9.0, depth = 9
iter = 10701, queue = 16049, heur = -9.0, depth = 9
iter = 10702, queue = 16051, heur = -9.0, depth = 9
iter = 10703, queue = 16051, heur = -9.0, depth = 9
iter = 10704, queue = 16053, heur = -9.0, depth = 9
iter = 10705, queue = 16056, heur = -9.0, depth = 9
iter = 10706, queue = 16057, heur = -9.0, depth = 9
iter = 10707, queue = 16056, heur = -9.0, depth = 9
iter = 10708, queue = 16056, heur = -9.0, depth = 9
iter = 10709, queue = 16056, heur = -9.0, depth = 9
iter = 10710, queue = 16057, heur = -9.0, depth = 9
iter = 10711, queue = 16058, heur = -9.0, depth = 9
iter = 10712, queue = 16057, heur = -9.0, depth = 9
iter = 10713, queue = 16059, heur = -9.0, depth = 9
iter = 10714, queue = 16062, heur = -9.0, depth = 9
iter = 10715, queue = 16065, heur = -9.0, depth = 9
iter = 10716, queue = 16066, heur = -9.0, depth = 9
iter = 10717, queue = 16068, heur = -9.0, depth = 9
iter = 10718, queue = 16067, heur = -9.0, depth = 9
iter = 10719, queue = 16068, heur = -9.0, depth = 9
iter = 10720, queue = 16070, heur = -9.0, depth = 9
iter = 10721, queue = 16071, heur = -9.0, depth = 9
iter = 10722, queue = 16074, heur = -9.0, depth = 9
iter = 10723, queue = 16075, heur = -9.0, depth = 9
iter = 10724, queue = 16078, heur = -9.0, depth = 9
iter = 10725, queue = 16079, heur = -9.0, depth = 9
iter = 10726, queue = 16080, heur = -9.0, depth = 9
iter = 10727, queue = 16079, heur = -9.0, depth = 9
iter = 10728, queue = 16082, heur = -9.0, depth = 9
iter = 10729, queue = 16083, heur = -9.0, depth = 9
iter = 10730, queue = 16085, heur = -9.0, depth = 9
iter = 10731, queue = 16084, heur = -9.0, depth = 9
iter = 10732, queue = 16085, heur = -9.0, depth = 9
iter = 10733, queue = 16086, heur = -9.0, depth = 9
iter = 10734, queue = 16089, heur = -9.0, depth = 9
iter = 10735, queue = 16090, heur = -9.0, depth = 9
iter = 10736, queue = 16093, heur = -9.0, depth = 9
```

```
iter = 10737, queue = 16096, heur = -9.0, depth = 9
iter = 10738, queue = 16095, heur = -9.0, depth = 10
iter = 10739, queue = 16096, heur = -9.0, depth = 9
iter = 10740, queue = 16097, heur = -9.0, depth = 9
iter = 10741, queue = 16099, heur = -9.0, depth = 9
iter = 10742, queue = 16102, heur = -9.0, depth = 9
iter = 10743, queue = 16103, heur = -9.0, depth = 9
iter = 10744, queue = 16104, heur = -9.0, depth = 9
iter = 10745, queue = 16105, heur = -9.0, depth = 10
iter = 10746, queue = 16105, heur = -9.0, depth = 9
iter = 10747, queue = 16108, heur = -9.0, depth = 9
iter = 10748, queue = 16111, heur = -9.0, depth = 9
iter = 10749, queue = 16111, heur = -9.0, depth = 9
iter = 10750, queue = 16112, heur = -9.0, depth = 9
iter = 10751, queue = 16113, heur = -9.0, depth = 9
iter = 10752, queue = 16115, heur = -9.0, depth = 9
iter = 10753, queue = 16115, heur = -9.0, depth = 9
iter = 10754, queue = 16117, heur = -9.0, depth = 9
iter = 10755, queue = 16118, heur = -9.0, depth = 9
iter = 10756, queue = 16119, heur = -9.0, depth = 9
iter = 10757, queue = 16120, heur = -9.0, depth = 9
iter = 10758, queue = 16123, heur = -9.0, depth = 9
iter = 10759, queue = 16124, heur = -9.0, depth = 9
iter = 10760, queue = 16127, heur = -9.0, depth = 9
iter = 10761, queue = 16128, heur = -9.0, depth = 9
iter = 10762, queue = 16131, heur = -9.0, depth = 9
iter = 10763, queue = 16132, heur = -9.0, depth = 9
iter = 10764, queue = 16135, heur = -9.0, depth = 9
iter = 10765, queue = 16136, heur = -9.0, depth = 9
iter = 10766, queue = 16137, heur = -9.0, depth = 9
iter = 10767, queue = 16140, heur = -9.0, depth = 9
iter = 10768, queue = 16141, heur = -9.0, depth = 9
iter = 10769, queue = 16144, heur = -9.0, depth = 9
iter = 10770, queue = 16145, heur = -9.0, depth = 9
iter = 10771, queue = 16145, heur = -9.0, depth = 9
iter = 10772, queue = 16146, heur = -9.0, depth = 9
iter = 10773, queue = 16147, heur = -9.0, depth = 9
iter = 10774, queue = 16148, heur = -9.0, depth = 9
iter = 10775, queue = 16148, heur = -9.0, depth = 9
iter = 10776, queue = 16149, heur = -9.0, depth = 9
iter = 10777, queue = 16152, heur = -9.0, depth = 9
iter = 10778, queue = 16155, heur = -9.0, depth = 9
iter = 10779, queue = 16157, heur = -9.0, depth = 9
iter = 10780, queue = 16156, heur = -9.0, depth = 9
iter = 10781, queue = 16157, heur = -9.0, depth = 9
iter = 10782, queue = 16158, heur = -9.0, depth = 9
iter = 10783, queue = 16161, heur = -9.0, depth = 9
iter = 10784, queue = 16161, heur = -9.0, depth = 9
iter = 10785, queue = 16160, heur = -9.0, depth = 9
iter = 10786, queue = 16163, heur = -9.0, depth = 9
iter = 10787, queue = 16164, heur = -9.0, depth = 9
iter = 10788, queue = 16164, heur = -9.0, depth = 9
iter = 10789, queue = 16165, heur = -9.0, depth = 9
iter = 10790, queue = 16165, heur = -9.0, depth = 9
iter = 10791, queue = 16166, heur = -9.0, depth = 9
iter = 10792, queue = 16167, heur = -9.0, depth = 9
iter = 10793, queue = 16169, heur = -9.0, depth = 9
iter = 10794, queue = 16170, heur = -9.0, depth = 9
iter = 10795, queue = 16170, heur = -9.0, depth = 9
```

```
iter = 10796, queue = 16171, heur = -9.0, depth = 10
iter = 10797, queue = 16172, heur = -9.0, depth = 9
iter = 10798, queue = 16173, heur = -9.0, depth = 10
iter = 10799, queue = 16176, heur = -9.0, depth = 10
iter = 10800, queue = 16179, heur = -9.0, depth = 9
iter = 10801, queue = 16180, heur = -9.0, depth = 9
iter = 10802, queue = 16181, heur = -9.0, depth = 9
iter = 10803, queue = 16184, heur = -9.0, depth = 9
iter = 10804, queue = 16183, heur = -9.0, depth = 10
iter = 10805, queue = 16184, heur = -9.0, depth = 9
iter = 10806, queue = 16185, heur = -9.0, depth = 10
iter = 10807, queue = 16188, heur = -9.0, depth = 9
iter = 10808, queue = 16189, heur = -9.0, depth = 9
iter = 10809, queue = 16191, heur = -9.0, depth = 9
iter = 10810, queue = 16192, heur = -9.0, depth = 9
iter = 10811, queue = 16195, heur = -9.0, depth = 9
iter = 10812, queue = 16196, heur = -9.0, depth = 10
iter = 10813, queue = 16197, heur = -9.0, depth = 9
iter = 10814, queue = 16197, heur = -9.0, depth = 9
iter = 10815, queue = 16199, heur = -9.0, depth = 9
iter = 10816, queue = 16199, heur = -9.0, depth = 10
iter = 10817, queue = 16198, heur = -9.0, depth = 10
iter = 10818, queue = 16199, heur = -9.0, depth = 9
iter = 10819, queue = 16200, heur = -9.0, depth = 10
iter = 10820, queue = 16199, heur = -9.0, depth = 9
iter = 10821, queue = 16201, heur = -9.0, depth = 10
iter = 10822, queue = 16204, heur = -9.0, depth = 10
iter = 10823, queue = 16207, heur = -9.0, depth = 10
iter = 10824, queue = 16210, heur = -9.0, depth = 9
iter = 10825, queue = 16211, heur = -9.0, depth = 9
iter = 10826, queue = 16212, heur = -9.0, depth = 9
iter = 10827, queue = 16213, heur = -9.0, depth = 10
iter = 10828, queue = 16214, heur = -9.0, depth = 10
iter = 10829, queue = 16215, heur = -9.0, depth = 9
iter = 10830, queue = 16216, heur = -9.0, depth = 10
iter = 10831, queue = 16217, heur = -9.0, depth = 10
iter = 10832, queue = 16217, heur = -9.0, depth = 11
iter = 10833, queue = 16220, heur = -9.0, depth = 9
iter = 10834, queue = 16220, heur = -9.0, depth = 9
iter = 10835, queue = 16221, heur = -9.0, depth = 9
iter = 10836, queue = 16222, heur = -9.0, depth = 10
iter = 10837, queue = 16225, heur = -9.0, depth = 9
iter = 10838, queue = 16225, heur = -9.0, depth = 9
iter = 10839, queue = 16228, heur = -9.0, depth = 10
iter = 10840, queue = 16229, heur = -9.0, depth = 10
iter = 10841, queue = 16231, heur = -9.0, depth = 9
iter = 10842, queue = 16232, heur = -9.0, depth = 9
iter = 10843, queue = 16233, heur = -9.0, depth = 10
iter = 10844, queue = 16232, heur = -9.0, depth = 10
iter = 10845, queue = 16233, heur = -9.0, depth = 9
iter = 10846, queue = 16235, heur = -9.0, depth = 10
iter = 10847, queue = 16238, heur = -9.0, depth = 10
iter = 10848, queue = 16241, heur = -9.0, depth = 9
iter = 10849, queue = 16243, heur = -9.0, depth = 9
iter = 10850, queue = 16243, heur = -9.0, depth = 9
iter = 10851, queue = 16244, heur = -9.0, depth = 9
iter = 10852, queue = 16245, heur = -9.0, depth = 9
iter = 10853, queue = 16247, heur = -9.0, depth = 10
iter = 10854, queue = 16249, heur = -9.0, depth = 9
```

```
iter = 10855, queue = 16252, heur = -9.0, depth = 9
iter = 10856, queue = 16251, heur = -9.0, depth = 9
iter = 10857, queue = 16250, heur = -9.0, depth = 10
iter = 10858, queue = 16250, heur = -9.0, depth = 9
iter = 10859, queue = 16252, heur = -9.0, depth = 10
iter = 10860, queue = 16255, heur = -9.0, depth = 9
iter = 10861, queue = 16255, heur = -9.0, depth = 10
iter = 10862, queue = 16258, heur = -9.0, depth = 10
iter = 10863, queue = 16261, heur = -9.0, depth = 9
iter = 10864, queue = 16262, heur = -9.0, depth = 10
iter = 10865, queue = 16263, heur = -9.0, depth = 9
iter = 10866, queue = 16263, heur = -9.0, depth = 9
iter = 10867, queue = 16265, heur = -9.0, depth = 9
iter = 10868, queue = 16267, heur = -9.0, depth = 11
iter = 10869, queue = 16270, heur = -9.0, depth = 11
iter = 10870, queue = 16271, heur = -9.0, depth = 10
iter = 10871, queue = 16272, heur = -9.0, depth = 11
iter = 10872, queue = 16274, heur = -9.0, depth = 10
iter = 10873, queue = 16275, heur = -9.0, depth = 10
iter = 10874, queue = 16277, heur = -9.0, depth = 9
iter = 10875, queue = 16278, heur = -9.0, depth = 9
iter = 10876, queue = 16279, heur = -9.0, depth = 9
iter = 10877, queue = 16280, heur = -9.0, depth = 9
iter = 10878, queue = 16281, heur = -9.0, depth = 11
iter = 10879, queue = 16283, heur = -9.0, depth = 9
iter = 10880, queue = 16284, heur = -9.0, depth = 9
iter = 10881, queue = 16287, heur = -9.0, depth = 9
iter = 10882, queue = 16286, heur = -9.0, depth = 9
iter = 10883, queue = 16287, heur = -9.0, depth = 9
iter = 10884, queue = 16289, heur = -9.0, depth = 9
iter = 10885, queue = 16292, heur = -9.0, depth = 9
iter = 10886, queue = 16293, heur = -9.0, depth = 9
iter = 10887, queue = 16296, heur = -9.0, depth = 9
iter = 10888, queue = 16297, heur = -9.0, depth = 9
iter = 10889, queue = 16298, heur = -9.0, depth = 9
iter = 10890, queue = 16297, heur = -9.0, depth = 10
iter = 10891, queue = 16299, heur = -9.0, depth = 9
iter = 10892, queue = 16300, heur = -9.0, depth = 9
iter = 10893, queue = 16301, heur = -9.0, depth = 9
iter = 10894, queue = 16304, heur = -9.0, depth = 9
iter = 10895, queue = 16304, heur = -9.0, depth = 9
iter = 10896, queue = 16307, heur = -9.0, depth = 9
iter = 10897, queue = 16307, heur = -9.0, depth = 9
iter = 10898, queue = 16308, heur = -9.0, depth = 9
iter = 10899, queue = 16311, heur = -9.0, depth = 9
iter = 10900, queue = 16311, heur = -9.0, depth = 9
iter = 10901, queue = 16313, heur = -9.0, depth = 9
iter = 10902, queue = 16316, heur = -9.0, depth = 9
iter = 10903, queue = 16318, heur = -9.0, depth = 9
iter = 10904, queue = 16319, heur = -9.0, depth = 9
iter = 10905, queue = 16322, heur = -9.0, depth = 9
iter = 10906, queue = 16325, heur = -9.0, depth = 9
iter = 10907, queue = 16326, heur = -9.0, depth = 9
iter = 10908, queue = 16328, heur = -9.0, depth = 9
iter = 10909, queue = 16329, heur = -9.0, depth = 9
iter = 10910, queue = 16332, heur = -9.0, depth = 9
iter = 10911, queue = 16333, heur = -9.0, depth = 9
iter = 10912, queue = 16333, heur = -9.0, depth = 10
iter = 10913, queue = 16332, heur = -9.0, depth = 9
```

```
iter = 10914, queue = 16333, heur = -9.0, depth = 9
iter = 10915, queue = 16335, heur = -9.0, depth = 9
iter = 10916, queue = 16337, heur = -9.0, depth = 9
iter = 10917, queue = 16340, heur = -9.0, depth = 9
iter = 10918, queue = 16342, heur = -9.0, depth = 9
iter = 10919, queue = 16341, heur = -9.0, depth = 9
iter = 10920, queue = 16344, heur = -9.0, depth = 9
iter = 10921, queue = 16346, heur = -9.0, depth = 9
iter = 10922, queue = 16347, heur = -9.0, depth = 9
iter = 10923, queue = 16349, heur = -9.0, depth = 9
iter = 10924, queue = 16349, heur = -9.0, depth = 9
iter = 10925, queue = 16350, heur = -9.0, depth = 9
iter = 10926, queue = 16351, heur = -9.0, depth = 9
iter = 10927, queue = 16353, heur = -9.0, depth = 9
iter = 10928, queue = 16356, heur = -9.0, depth = 9
iter = 10929, queue = 16355, heur = -9.0, depth = 9
iter = 10930, queue = 16357, heur = -9.0, depth = 10
iter = 10931, queue = 16360, heur = -9.0, depth = 9
iter = 10932, queue = 16363, heur = -9.0, depth = 9
iter = 10933, queue = 16362, heur = -9.0, depth = 9
iter = 10934, queue = 16363, heur = -9.0, depth = 9
iter = 10935, queue = 16366, heur = -9.0, depth = 9
iter = 10936, queue = 16368, heur = -9.0, depth = 10
iter = 10937, queue = 16369, heur = -9.0, depth = 9
iter = 10938, queue = 16370, heur = -9.0, depth = 10
iter = 10939, queue = 16372, heur = -9.0, depth = 9
iter = 10940, queue = 16375, heur = -9.0, depth = 10
iter = 10941, queue = 16378, heur = -9.0, depth = 9
iter = 10942, queue = 16379, heur = -9.0, depth = 10
iter = 10943, queue = 16380, heur = -9.0, depth = 9
iter = 10944, queue = 16381, heur = -9.0, depth = 9
iter = 10945, queue = 16382, heur = -9.0, depth = 9
iter = 10946, queue = 16385, heur = -9.0, depth = 9
iter = 10947, queue = 16384, heur = -9.0, depth = 9
iter = 10948, queue = 16383, heur = -9.0, depth = 9
iter = 10949, queue = 16382, heur = -9.0, depth = 9
iter = 10950, queue = 16383, heur = -9.0, depth = 9
iter = 10951, queue = 16384, heur = -9.0, depth = 9
iter = 10952, queue = 16385, heur = -9.0, depth = 9
iter = 10953, queue = 16387, heur = -9.0, depth = 9
iter = 10954, queue = 16389, heur = -9.0, depth = 9
iter = 10955, queue = 16390, heur = -9.0, depth = 9
iter = 10956, queue = 16392, heur = -9.0, depth = 9
iter = 10957, queue = 16394, heur = -9.0, depth = 9
iter = 10958, queue = 16395, heur = -9.0, depth = 9
iter = 10959, queue = 16398, heur = -9.0, depth = 9
iter = 10960, queue = 16401, heur = -9.0, depth = 9
iter = 10961, queue = 16403, heur = -9.0, depth = 9
iter = 10962, queue = 16405, heur = -9.0, depth = 9
iter = 10963, queue = 16406, heur = -9.0, depth = 9
iter = 10964, queue = 16407, heur = -9.0, depth = 9
iter = 10965, queue = 16410, heur = -9.0, depth = 9
iter = 10966, queue = 16411, heur = -9.0, depth = 9
iter = 10967, queue = 16411, heur = -9.0, depth = 9
iter = 10968, queue = 16414, heur = -9.0, depth = 9
iter = 10969, queue = 16415, heur = -9.0, depth = 9
iter = 10970, queue = 16418, heur = -9.0, depth = 9
iter = 10971, queue = 16421, heur = -9.0, depth = 9
iter = 10972, queue = 16422, heur = -9.0, depth = 9
```

```
iter = 10973, queue = 16421, heur = -9.0, depth = 9
iter = 10974, queue = 16423, heur = -9.0, depth = 9
iter = 10975, queue = 16424, heur = -9.0, depth = 9
iter = 10976, queue = 16427, heur = -9.0, depth = 9
iter = 10977, queue = 16430, heur = -9.0, depth = 9
iter = 10978, queue = 16431, heur = -9.0, depth = 9
iter = 10979, queue = 16433, heur = -9.0, depth = 9
iter = 10980, queue = 16434, heur = -9.0, depth = 9
iter = 10981, queue = 16436, heur = -9.0, depth = 9
iter = 10982, queue = 16439, heur = -9.0, depth = 9
iter = 10983, queue = 16440, heur = -9.0, depth = 9
iter = 10984, queue = 16439, heur = -9.0, depth = 9
iter = 10985, queue = 16439, heur = -9.0, depth = 9
iter = 10986, queue = 16442, heur = -9.0, depth = 9
iter = 10987, queue = 16443, heur = -9.0, depth = 9
iter = 10988, queue = 16446, heur = -9.0, depth = 9
iter = 10989, queue = 16446, heur = -9.0, depth = 9
iter = 10990, queue = 16449, heur = -9.0, depth = 9
iter = 10991, queue = 16450, heur = -9.0, depth = 9
iter = 10992, queue = 16450, heur = -9.0, depth = 9
iter = 10993, queue = 16453, heur = -9.0, depth = 9
iter = 10994, queue = 16452, heur = -9.0, depth = 9
iter = 10995, queue = 16453, heur = -9.0, depth = 9
iter = 10996, queue = 16454, heur = -9.0, depth = 9
iter = 10997, queue = 16457, heur = -9.0, depth = 9
iter = 10998, queue = 16460, heur = -9.0, depth = 9
iter = 10999, queue = 16462, heur = -9.0, depth = 9
iter = 11000, queue = 16461, heur = -9.0, depth = 9
iter = 11001, queue = 16464, heur = -9.0, depth = 9
iter = 11002, queue = 16465, heur = -9.0, depth = 9
iter = 11003, queue = 16467, heur = -9.0, depth = 9
iter = 11004, queue = 16470, heur = -9.0, depth = 9
iter = 11005, queue = 16469, heur = -9.0, depth = 9
iter = 11006, queue = 16469, heur = -9.0, depth = 9
iter = 11007, queue = 16470, heur = -9.0, depth = 9
iter = 11008, queue = 16469, heur = -9.0, depth = 9
iter = 11009, queue = 16468, heur = -9.0, depth = 9
iter = 11010, queue = 16469, heur = -9.0, depth = 9
iter = 11011, queue = 16471, heur = -9.0, depth = 9
iter = 11012, queue = 16472, heur = -9.0, depth = 9
iter = 11013, queue = 16472, heur = -9.0, depth = 9
iter = 11014, queue = 16475, heur = -9.0, depth = 9
iter = 11015, queue = 16477, heur = -9.0, depth = 9
iter = 11016, queue = 16479, heur = -9.0, depth = 9
iter = 11017, queue = 16479, heur = -9.0, depth = 9
iter = 11018, queue = 16480, heur = -9.0, depth = 9
iter = 11019, queue = 16482, heur = -9.0, depth = 9
iter = 11020, queue = 16483, heur = -9.0, depth = 9
iter = 11021, queue = 16484, heur = -9.0, depth = 9
iter = 11022, queue = 16486, heur = -9.0, depth = 9
iter = 11023, queue = 16489, heur = -9.0, depth = 11
iter = 11024, queue = 16492, heur = -9.0, depth = 9
iter = 11025, queue = 16493, heur = -9.0, depth = 9
iter = 11026, queue = 16494, heur = -9.0, depth = 9
iter = 11027, queue = 16494, heur = -9.0, depth = 9
iter = 11028, queue = 16497, heur = -9.0, depth = 10
iter = 11029, queue = 16499, heur = -9.0, depth = 11
iter = 11030, queue = 16500, heur = -9.0, depth = 9
iter = 11031, queue = 16499, heur = -9.0, depth = 9
```

```
iter = 11032, queue = 16499, heur = -9.0, depth = 9
iter = 11033, queue = 16500, heur = -9.0, depth = 9
iter = 11034, queue = 16501, heur = -9.0, depth = 9
iter = 11035, queue = 16502, heur = -9.0, depth = 9
iter = 11036, queue = 16501, heur = -9.0, depth = 9
iter = 11037, queue = 16502, heur = -9.0, depth = 9
iter = 11038, queue = 16505, heur = -9.0, depth = 9
iter = 11039, queue = 16507, heur = -9.0, depth = 9
iter = 11040, queue = 16510, heur = -9.0, depth = 9
iter = 11041, queue = 16510, heur = -9.0, depth = 9
iter = 11042, queue = 16511, heur = -9.0, depth = 9
iter = 11043, queue = 16510, heur = -9.0, depth = 9
iter = 11044, queue = 16511, heur = -9.0, depth = 9
iter = 11045, queue = 16513, heur = -9.0, depth = 9
iter = 11046, queue = 16513, heur = -9.0, depth = 9
iter = 11047, queue = 16515, heur = -9.0, depth = 9
iter = 11048, queue = 16514, heur = -9.0, depth = 9
iter = 11049, queue = 16515, heur = -9.0, depth = 9
iter = 11050, queue = 16516, heur = -9.0, depth = 9
iter = 11051, queue = 16517, heur = -9.0, depth = 12
iter = 11052, queue = 16519, heur = -9.0, depth = 9
iter = 11053, queue = 16519, heur = -9.0, depth = 9
iter = 11054, queue = 16519, heur = -9.0, depth = 9
iter = 11055, queue = 16520, heur = -9.0, depth = 9
iter = 11056, queue = 16523, heur = -9.0, depth = 9
iter = 11057, queue = 16525, heur = -9.0, depth = 9
iter = 11058, queue = 16527, heur = -9.0, depth = 9
iter = 11059, queue = 16526, heur = -9.0, depth = 9
iter = 11060, queue = 16529, heur = -9.0, depth = 9
iter = 11061, queue = 16530, heur = -9.0, depth = 9
iter = 11062, queue = 16532, heur = -9.0, depth = 9
iter = 11063, queue = 16533, heur = -9.0, depth = 9
iter = 11064, queue = 16534, heur = -9.0, depth = 9
iter = 11065, queue = 16536, heur = -9.0, depth = 9
iter = 11066, queue = 16539, heur = -9.0, depth = 9
iter = 11067, queue = 16540, heur = -9.0, depth = 9
iter = 11068, queue = 16540, heur = -9.0, depth = 9
iter = 11069, queue = 16541, heur = -9.0, depth = 9
iter = 11070, queue = 16544, heur = -9.0, depth = 9
iter = 11071, queue = 16547, heur = -9.0, depth = 10
iter = 11072, queue = 16546, heur = -9.0, depth = 9
iter = 11073, queue = 16549, heur = -9.0, depth = 9
iter = 11074, queue = 16550, heur = -9.0, depth = 9
iter = 11075, queue = 16550, heur = -9.0, depth = 9
iter = 11076, queue = 16551, heur = -9.0, depth = 10
iter = 11077, queue = 16554, heur = -9.0, depth = 11
iter = 11078, queue = 16556, heur = -9.0, depth = 11
iter = 11079, queue = 16558, heur = -9.0, depth = 9
iter = 11080, queue = 16559, heur = -9.0, depth = 11
iter = 11081, queue = 16559, heur = -9.0, depth = 9
iter = 11082, queue = 16562, heur = -9.0, depth = 10
iter = 11083, queue = 16563, heur = -9.0, depth = 9
iter = 11084, queue = 16562, heur = -9.0, depth = 9
iter = 11085, queue = 16565, heur = -9.0, depth = 9
iter = 11086, queue = 16566, heur = -9.0, depth = 9
iter = 11087, queue = 16569, heur = -9.0, depth = 9
iter = 11088, queue = 16570, heur = -9.0, depth = 9
iter = 11089, queue = 16571, heur = -9.0, depth = 9
iter = 11090, queue = 16573, heur = -9.0, depth = 9
```

```
iter = 11091, queue = 16575, heur = -9.0, depth = 9
iter = 11092, queue = 16575, heur = -9.0, depth = 9
iter = 11093, queue = 16576, heur = -9.0, depth = 9
iter = 11094, queue = 16577, heur = -9.0, depth = 9
iter = 11095, queue = 16576, heur = -9.0, depth = 9
iter = 11096, queue = 16576, heur = -9.0, depth = 9
iter = 11097, queue = 16576, heur = -9.0, depth = 9
iter = 11098, queue = 16575, heur = -9.0, depth = 9
iter = 11099, queue = 16578, heur = -9.0, depth = 9
iter = 11100, queue = 16577, heur = -9.0, depth = 9
iter = 11101, queue = 16580, heur = -9.0, depth = 9
iter = 11102, queue = 16581, heur = -9.0, depth = 9
iter = 11103, queue = 16582, heur = -9.0, depth = 9
iter = 11104, queue = 16585, heur = -9.0, depth = 9
iter = 11105, queue = 16584, heur = -9.0, depth = 9
iter = 11106, queue = 16583, heur = -9.0, depth = 10
iter = 11107, queue = 16583, heur = -9.0, depth = 10
iter = 11108, queue = 16585, heur = -9.0, depth = 9
iter = 11109, queue = 16585, heur = -9.0, depth = 9
iter = 11110, queue = 16586, heur = -9.0, depth = 10
iter = 11111, queue = 16587, heur = -9.0, depth = 9
iter = 11112, queue = 16587, heur = -9.0, depth = 9
iter = 11113, queue = 16588, heur = -9.0, depth = 9
iter = 11114, queue = 16587, heur = -9.0, depth = 10
iter = 11115, queue = 16590, heur = -9.0, depth = 10
iter = 11116, queue = 16592, heur = -9.0, depth = 9
iter = 11117, queue = 16595, heur = -9.0, depth = 9
iter = 11118, queue = 16596, heur = -9.0, depth = 9
iter = 11119, queue = 16596, heur = -9.0, depth = 9
iter = 11120, queue = 16598, heur = -9.0, depth = 9
iter = 11121, queue = 16599, heur = -9.0, depth = 9
iter = 11122, queue = 16600, heur = -9.0, depth = 9
iter = 11123, queue = 16602, heur = -9.0, depth = 9
iter = 11124, queue = 16603, heur = -9.0, depth = 9
iter = 11125, queue = 16603, heur = -9.0, depth = 9
iter = 11126, queue = 16606, heur = -9.0, depth = 9
iter = 11127, queue = 16607, heur = -9.0, depth = 9
iter = 11128, queue = 16608, heur = -9.0, depth = 9
iter = 11129, queue = 16611, heur = -9.0, depth = 9
iter = 11130, queue = 16612, heur = -9.0, depth = 9
iter = 11131, queue = 16613, heur = -9.0, depth = 9
iter = 11132, queue = 16615, heur = -9.0, depth = 9
iter = 11133, queue = 16615, heur = -9.0, depth = 9
iter = 11134, queue = 16617, heur = -9.0, depth = 9
iter = 11135, queue = 16617, heur = -9.0, depth = 9
iter = 11136, queue = 16618, heur = -9.0, depth = 9
iter = 11137, queue = 16619, heur = -9.0, depth = 9
iter = 11138, queue = 16620, heur = -9.0, depth = 9
iter = 11139, queue = 16623, heur = -9.0, depth = 9
iter = 11140, queue = 16622, heur = -9.0, depth = 9
iter = 11141, queue = 16625, heur = -9.0, depth = 9
iter = 11142, queue = 16628, heur = -9.0, depth = 9
iter = 11143, queue = 16630, heur = -9.0, depth = 9
iter = 11144, queue = 16631, heur = -9.0, depth = 9
iter = 11145, queue = 16633, heur = -9.0, depth = 9
iter = 11146, queue = 16634, heur = -9.0, depth = 9
iter = 11147, queue = 16637, heur = -9.0, depth = 9
iter = 11148, queue = 16640, heur = -9.0, depth = 9
iter = 11149, queue = 16643, heur = -9.0, depth = 9
```

```
iter = 11150, queue = 16643, heur = -9.0, depth = 9
iter = 11151, queue = 16646, heur = -9.0, depth = 9
iter = 11152, queue = 16649, heur = -9.0, depth = 9
iter = 11153, queue = 16650, heur = -9.0, depth = 9
iter = 11154, queue = 16651, heur = -9.0, depth = 9
iter = 11155, queue = 16652, heur = -9.0, depth = 9
iter = 11156, queue = 16655, heur = -9.0, depth = 9
iter = 11157, queue = 16656, heur = -9.0, depth = 9
iter = 11158, queue = 16659, heur = -9.0, depth = 9
iter = 11159, queue = 16660, heur = -9.0, depth = 9
iter = 11160, queue = 16663, heur = -9.0, depth = 10
iter = 11161, queue = 16666, heur = -9.0, depth = 9
iter = 11162, queue = 16667, heur = -9.0, depth = 9
iter = 11163, queue = 16669, heur = -9.0, depth = 9
iter = 11164, queue = 16670, heur = -9.0, depth = 9
iter = 11165, queue = 16673, heur = -9.0, depth = 9
iter = 11166, queue = 16672, heur = -9.0, depth = 9
iter = 11167, queue = 16673, heur = -9.0, depth = 9
iter = 11168, queue = 16676, heur = -9.0, depth = 10
iter = 11169, queue = 16677, heur = -9.0, depth = 9
iter = 11170, queue = 16679, heur = -9.0, depth = 9
iter = 11171, queue = 16680, heur = -9.0, depth = 10
iter = 11172, queue = 16681, heur = -9.0, depth = 10
iter = 11173, queue = 16682, heur = -9.0, depth = 9
iter = 11174, queue = 16683, heur = -9.0, depth = 9
iter = 11175, queue = 16684, heur = -9.0, depth = 9
iter = 11176, queue = 16685, heur = -9.0, depth = 9
iter = 11177, queue = 16687, heur = -9.0, depth = 10
iter = 11178, queue = 16688, heur = -9.0, depth = 9
iter = 11179, queue = 16690, heur = -9.0, depth = 10
iter = 11180, queue = 16692, heur = -9.0, depth = 9
iter = 11181, queue = 16693, heur = -9.0, depth = 9
iter = 11182, queue = 16694, heur = -9.0, depth = 10
iter = 11183, queue = 16695, heur = -9.0, depth = 9
iter = 11184, queue = 16696, heur = -9.0, depth = 9
iter = 11185, queue = 16698, heur = -9.0, depth = 9
iter = 11186, queue = 16700, heur = -9.0, depth = 9
iter = 11187, queue = 16703, heur = -9.0, depth = 9
iter = 11188, queue = 16704, heur = -9.0, depth = 9
iter = 11189, queue = 16705, heur = -9.0, depth = 9
iter = 11190, queue = 16707, heur = -9.0, depth = 10
iter = 11191, queue = 16708, heur = -9.0, depth = 9
iter = 11192, queue = 16711, heur = -9.0, depth = 9
iter = 11193, queue = 16712, heur = -9.0, depth = 9
iter = 11194, queue = 16714, heur = -9.0, depth = 10
iter = 11195, queue = 16715, heur = -9.0, depth = 9
iter = 11196, queue = 16718, heur = -9.0, depth = 9
iter = 11197, queue = 16719, heur = -9.0, depth = 9
iter = 11198, queue = 16720, heur = -9.0, depth = 9
iter = 11199, queue = 16723, heur = -9.0, depth = 9
iter = 11200, queue = 16723, heur = -9.0, depth = 9
iter = 11201, queue = 16724, heur = -9.0, depth = 9
iter = 11202, queue = 16725, heur = -9.0, depth = 9
iter = 11203, queue = 16726, heur = -9.0, depth = 9
iter = 11204, queue = 16726, heur = -9.0, depth = 9
iter = 11205, queue = 16727, heur = -9.0, depth = 9
iter = 11206, queue = 16728, heur = -9.0, depth = 9
iter = 11207, queue = 16729, heur = -9.0, depth = 9
iter = 11208, queue = 16730, heur = -9.0, depth = 9
```

```
iter = 11209, queue = 16731, heur = -9.0, depth = 9
iter = 11210, queue = 16734, heur = -9.0, depth = 10
iter = 11211, queue = 16735, heur = -9.0, depth = 9
iter = 11212, queue = 16738, heur = -9.0, depth = 9
iter = 11213, queue = 16739, heur = -9.0, depth = 9
iter = 11214, queue = 16740, heur = -9.0, depth = 9
iter = 11215, queue = 16739, heur = -9.0, depth = 9
iter = 11216, queue = 16740, heur = -9.0, depth = 9
iter = 11217, queue = 16742, heur = -9.0, depth = 9
iter = 11218, queue = 16745, heur = -9.0, depth = 10
iter = 11219, queue = 16748, heur = -9.0, depth = 9
iter = 11220, queue = 16749, heur = -9.0, depth = 9
iter = 11221, queue = 16750, heur = -9.0, depth = 9
iter = 11222, queue = 16753, heur = -9.0, depth = 9
iter = 11223, queue = 16756, heur = -9.0, depth = 9
iter = 11224, queue = 16757, heur = -9.0, depth = 11
iter = 11225, queue = 16757, heur = -9.0, depth = 9
iter = 11226, queue = 16758, heur = -9.0, depth = 9
iter = 11227, queue = 16760, heur = -9.0, depth = 10
iter = 11228, queue = 16763, heur = -9.0, depth = 9
iter = 11229, queue = 16766, heur = -9.0, depth = 9
iter = 11230, queue = 16767, heur = -9.0, depth = 9
iter = 11231, queue = 16768, heur = -9.0, depth = 9
iter = 11232, queue = 16769, heur = -9.0, depth = 9
iter = 11233, queue = 16770, heur = -9.0, depth = 9
iter = 11234, queue = 16771, heur = -9.0, depth = 10
iter = 11235, queue = 16773, heur = -9.0, depth = 9
iter = 11236, queue = 16775, heur = -9.0, depth = 9
iter = 11237, queue = 16776, heur = -9.0, depth = 10
iter = 11238, queue = 16777, heur = -9.0, depth = 9
iter = 11239, queue = 16778, heur = -9.0, depth = 9
iter = 11240, queue = 16777, heur = -9.0, depth = 9
iter = 11241, queue = 16778, heur = -9.0, depth = 10
iter = 11242, queue = 16778, heur = -9.0, depth = 10
iter = 11243, queue = 16779, heur = -9.0, depth = 9
iter = 11244, queue = 16780, heur = -9.0, depth = 9
iter = 11245, queue = 16781, heur = -9.0, depth = 9
iter = 11246, queue = 16783, heur = -9.0, depth = 9
iter = 11247, queue = 16782, heur = -9.0, depth = 9
iter = 11248, queue = 16781, heur = -9.0, depth = 9
iter = 11249, queue = 16782, heur = -9.0, depth = 9
iter = 11250, queue = 16784, heur = -9.0, depth = 9
iter = 11251, queue = 16785, heur = -9.0, depth = 9
iter = 11252, queue = 16787, heur = -9.0, depth = 9
iter = 11253, queue = 16788, heur = -9.0, depth = 9
iter = 11254, queue = 16791, heur = -9.0, depth = 9
iter = 11255, queue = 16792, heur = -9.0, depth = 10
iter = 11256, queue = 16794, heur = -9.0, depth = 9
iter = 11257, queue = 16797, heur = -9.0, depth = 9
iter = 11258, queue = 16798, heur = -9.0, depth = 9
iter = 11259, queue = 16800, heur = -9.0, depth = 9
iter = 11260, queue = 16801, heur = -9.0, depth = 10
iter = 11261, queue = 16802, heur = -9.0, depth = 9
iter = 11262, queue = 16805, heur = -9.0, depth = 9
iter = 11263, queue = 16808, heur = -9.0, depth = 9
iter = 11264, queue = 16811, heur = -9.0, depth = 9
iter = 11265, queue = 16812, heur = -9.0, depth = 9
iter = 11266, queue = 16815, heur = -9.0, depth = 9
iter = 11267, queue = 16818, heur = -9.0, depth = 12
```

```
iter = 11268, queue = 16819, heur = -9.0, depth = 9
iter = 11269, queue = 16821, heur = -9.0, depth = 9
iter = 11270, queue = 16824, heur = -9.0, depth = 9
iter = 11271, queue = 16827, heur = -9.0, depth = 9
iter = 11272, queue = 16830, heur = -9.0, depth = 9
iter = 11273, queue = 16833, heur = -9.0, depth = 9
iter = 11274, queue = 16836, heur = -9.0, depth = 9
iter = 11275, queue = 16837, heur = -9.0, depth = 9
iter = 11276, queue = 16839, heur = -9.0, depth = 9
iter = 11277, queue = 16842, heur = -9.0, depth = 9
iter = 11278, queue = 16845, heur = -9.0, depth = 9
iter = 11279, queue = 16848, heur = -9.0, depth = 9
iter = 11280, queue = 16851, heur = -9.0, depth = 9
iter = 11281, queue = 16854, heur = -9.0, depth = 9
iter = 11282, queue = 16856, heur = -9.0, depth = 10
iter = 11283, queue = 16859, heur = -9.0, depth = 9
iter = 11284, queue = 16861, heur = -9.0, depth = 9
iter = 11285, queue = 16862, heur = -9.0, depth = 9
iter = 11286, queue = 16865, heur = -9.0, depth = 9
iter = 11287, queue = 16868, heur = -9.0, depth = 9
iter = 11288, queue = 16869, heur = -9.0, depth = 9
iter = 11289, queue = 16870, heur = -9.0, depth = 13
iter = 11290, queue = 16873, heur = -9.0, depth = 9
iter = 11291, queue = 16874, heur = -9.0, depth = 9
iter = 11292, queue = 16873, heur = -9.0, depth = 9
iter = 11293, queue = 16874, heur = -9.0, depth = 9
iter = 11294, queue = 16875, heur = -9.0, depth = 9
iter = 11295, queue = 16877, heur = -9.0, depth = 9
iter = 11296, queue = 16879, heur = -9.0, depth = 9
iter = 11297, queue = 16881, heur = -9.0, depth = 9
iter = 11298, queue = 16883, heur = -9.0, depth = 9
iter = 11299, queue = 16884, heur = -9.0, depth = 9
iter = 11300, queue = 16887, heur = -9.0, depth = 9
iter = 11301, queue = 16888, heur = -9.0, depth = 9
iter = 11302, queue = 16889, heur = -9.0, depth = 9
iter = 11303, queue = 16890, heur = -9.0, depth = 9
iter = 11304, queue = 16893, heur = -9.0, depth = 9
iter = 11305, queue = 16896, heur = -9.0, depth = 9
iter = 11306, queue = 16898, heur = -9.0, depth = 9
iter = 11307, queue = 16898, heur = -9.0, depth = 9
iter = 11308, queue = 16899, heur = -9.0, depth = 9
iter = 11309, queue = 16900, heur = -9.0, depth = 9
iter = 11310, queue = 16901, heur = -9.0, depth = 9
iter = 11311, queue = 16902, heur = -9.0, depth = 9
iter = 11312, queue = 16903, heur = -9.0, depth = 9
iter = 11313, queue = 16904, heur = -9.0, depth = 9
iter = 11314, queue = 16907, heur = -9.0, depth = 9
iter = 11315, queue = 16910, heur = -9.0, depth = 9
iter = 11316, queue = 16911, heur = -9.0, depth = 9
iter = 11317, queue = 16912, heur = -9.0, depth = 9
iter = 11318, queue = 16915, heur = -9.0, depth = 9
iter = 11319, queue = 16916, heur = -9.0, depth = 9
iter = 11320, queue = 16917, heur = -9.0, depth = 9
iter = 11321, queue = 16920, heur = -9.0, depth = 9
iter = 11322, queue = 16921, heur = -9.0, depth = 9
iter = 11323, queue = 16922, heur = -9.0, depth = 10
iter = 11324, queue = 16923, heur = -9.0, depth = 9
iter = 11325, queue = 16926, heur = -9.0, depth = 9
iter = 11326, queue = 16927, heur = -9.0, depth = 9
```

```
iter = 11327, queue = 16930, heur = -9.0, depth = 9
iter = 11328, queue = 16931, heur = -9.0, depth = 9
iter = 11329, queue = 16934, heur = -9.0, depth = 9
iter = 11330, queue = 16935, heur = -9.0, depth = 10
iter = 11331, queue = 16935, heur = -9.0, depth = 9
iter = 11332, queue = 16938, heur = -9.0, depth = 9
iter = 11333, queue = 16940, heur = -9.0, depth = 9
iter = 11334, queue = 16943, heur = -9.0, depth = 9
iter = 11335, queue = 16945, heur = -9.0, depth = 9
iter = 11336, queue = 16946, heur = -9.0, depth = 9
iter = 11337, queue = 16947, heur = -9.0, depth = 13
iter = 11338, queue = 16948, heur = -9.0, depth = 9
iter = 11339, queue = 16949, heur = -9.0, depth = 9
iter = 11340, queue = 16950, heur = -9.0, depth = 9
iter = 11341, queue = 16951, heur = -9.0, depth = 9
iter = 11342, queue = 16953, heur = -9.0, depth = 9
iter = 11343, queue = 16953, heur = -9.0, depth = 9
iter = 11344, queue = 16954, heur = -9.0, depth = 9
iter = 11345, queue = 16955, heur = -9.0, depth = 10
iter = 11346, queue = 16957, heur = -9.0, depth = 9
iter = 11347, queue = 16957, heur = -9.0, depth = 9
iter = 11348, queue = 16960, heur = -9.0, depth = 9
iter = 11349, queue = 16963, heur = -9.0, depth = 9
iter = 11350, queue = 16966, heur = -9.0, depth = 9
iter = 11351, queue = 16967, heur = -9.0, depth = 9
iter = 11352, queue = 16968, heur = -9.0, depth = 9
iter = 11353, queue = 16969, heur = -9.0, depth = 9
iter = 11354, queue = 16972, heur = -9.0, depth = 13
iter = 11355, queue = 16973, heur = -9.0, depth = 9
iter = 11356, queue = 16974, heur = -9.0, depth = 9
iter = 11357, queue = 16975, heur = -9.0, depth = 9
iter = 11358, queue = 16977, heur = -9.0, depth = 9
iter = 11359, queue = 16978, heur = -9.0, depth = 9
iter = 11360, queue = 16981, heur = -9.0, depth = 9
iter = 11361, queue = 16982, heur = -9.0, depth = 13
iter = 11362, queue = 16985, heur = -9.0, depth = 9
iter = 11363, queue = 16985, heur = -9.0, depth = 9
iter = 11364, queue = 16984, heur = -9.0, depth = 9
iter = 11365, queue = 16985, heur = -9.0, depth = 9
iter = 11366, queue = 16986, heur = -9.0, depth = 9
iter = 11367, queue = 16989, heur = -9.0, depth = 9
iter = 11368, queue = 16992, heur = -9.0, depth = 9
iter = 11369, queue = 16993, heur = -9.0, depth = 9
iter = 11370, queue = 16993, heur = -9.0, depth = 9
iter = 11371, queue = 16996, heur = -9.0, depth = 9
iter = 11372, queue = 16997, heur = -9.0, depth = 9
iter = 11373, queue = 16998, heur = -9.0, depth = 9
iter = 11374, queue = 17001, heur = -9.0, depth = 9
iter = 11375, queue = 17002, heur = -9.0, depth = 9
iter = 11376, queue = 17003, heur = -9.0, depth = 9
iter = 11377, queue = 17005, heur = -9.0, depth = 9
iter = 11378, queue = 17005, heur = -9.0, depth = 9
iter = 11379, queue = 17008, heur = -9.0, depth = 9
iter = 11380, queue = 17009, heur = -9.0, depth = 9
iter = 11381, queue = 17009, heur = -9.0, depth = 9
iter = 11382, queue = 17010, heur = -9.0, depth = 9
iter = 11383, queue = 17011, heur = -9.0, depth = 9
iter = 11384, queue = 17014, heur = -9.0, depth = 10
iter = 11385, queue = 17013, heur = -9.0, depth = 9
```

```
iter = 11386, queue = 17016, heur = -9.0, depth = 9
iter = 11387, queue = 17015, heur = -9.0, depth = 9
iter = 11388, queue = 17016, heur = -9.0, depth = 9
iter = 11389, queue = 17017, heur = -9.0, depth = 9
iter = 11390, queue = 17019, heur = -9.0, depth = 9
iter = 11391, queue = 17020, heur = -9.0, depth = 9
iter = 11392, queue = 17021, heur = -9.0, depth = 9
iter = 11393, queue = 17024, heur = -9.0, depth = 9
iter = 11394, queue = 17024, heur = -9.0, depth = 9
iter = 11395, queue = 17027, heur = -9.0, depth = 9
iter = 11396, queue = 17030, heur = -9.0, depth = 9
iter = 11397, queue = 17031, heur = -9.0, depth = 9
iter = 11398, queue = 17030, heur = -9.0, depth = 9
iter = 11399, queue = 17031, heur = -9.0, depth = 9
iter = 11400, queue = 17033, heur = -9.0, depth = 9
iter = 11401, queue = 17033, heur = -9.0, depth = 9
iter = 11402, queue = 17036, heur = -9.0, depth = 9
iter = 11403, queue = 17037, heur = -9.0, depth = 9
iter = 11404, queue = 17038, heur = -9.0, depth = 9
iter = 11405, queue = 17037, heur = -9.0, depth = 9
iter = 11406, queue = 17037, heur = -9.0, depth = 9
iter = 11407, queue = 17038, heur = -9.0, depth = 9
iter = 11408, queue = 17039, heur = -9.0, depth = 9
iter = 11409, queue = 17040, heur = -9.0, depth = 9
iter = 11410, queue = 17041, heur = -9.0, depth = 9
iter = 11411, queue = 17043, heur = -9.0, depth = 10
iter = 11412, queue = 17042, heur = -9.0, depth = 9
iter = 11413, queue = 17043, heur = -9.0, depth = 9
iter = 11414, queue = 17045, heur = -9.0, depth = 9
iter = 11415, queue = 17046, heur = -9.0, depth = 9
iter = 11416, queue = 17046, heur = -9.0, depth = 9
iter = 11417, queue = 17048, heur = -9.0, depth = 9
iter = 11418, queue = 17049, heur = -9.0, depth = 9
iter = 11419, queue = 17051, heur = -9.0, depth = 9
iter = 11420, queue = 17053, heur = -9.0, depth = 9
iter = 11421, queue = 17054, heur = -9.0, depth = 9
iter = 11422, queue = 17055, heur = -9.0, depth = 10
iter = 11423, queue = 17057, heur = -9.0, depth = 10
iter = 11424, queue = 17059, heur = -9.0, depth = 9
iter = 11425, queue = 17061, heur = -9.0, depth = 10
iter = 11426, queue = 17064, heur = -9.0, depth = 9
iter = 11427, queue = 17066, heur = -9.0, depth = 9
iter = 11428, queue = 17067, heur = -9.0, depth = 9
iter = 11429, queue = 17067, heur = -9.0, depth = 9
iter = 11430, queue = 17068, heur = -9.0, depth = 9
iter = 11431, queue = 17070, heur = -9.0, depth = 9
iter = 11432, queue = 17073, heur = -9.0, depth = 9
iter = 11433, queue = 17076, heur = -9.0, depth = 9
iter = 11434, queue = 17079, heur = -9.0, depth = 9
iter = 11435, queue = 17081, heur = -9.0, depth = 9
iter = 11436, queue = 17082, heur = -9.0, depth = 9
iter = 11437, queue = 17081, heur = -9.0, depth = 9
iter = 11438, queue = 17084, heur = -9.0, depth = 9
iter = 11439, queue = 17087, heur = -9.0, depth = 9
iter = 11440, queue = 17088, heur = -9.0, depth = 9
iter = 11441, queue = 17089, heur = -9.0, depth = 9
iter = 11442, queue = 17090, heur = -9.0, depth = 9
iter = 11443, queue = 17093, heur = -9.0, depth = 9
iter = 11444, queue = 17093, heur = -9.0, depth = 9
```

```
iter = 11445, queue = 17095, heur = -9.0, depth = 10
iter = 11446, queue = 17096, heur = -9.0, depth = 9
iter = 11447, queue = 17095, heur = -9.0, depth = 10
iter = 11448, queue = 17098, heur = -9.0, depth = 9
iter = 11449, queue = 17101, heur = -9.0, depth = 9
iter = 11450, queue = 17103, heur = -9.0, depth = 12
iter = 11451, queue = 17104, heur = -9.0, depth = 9
iter = 11452, queue = 17106, heur = -9.0, depth = 9
iter = 11453, queue = 17108, heur = -9.0, depth = 10
iter = 11454, queue = 17107, heur = -9.0, depth = 9
iter = 11455, queue = 17110, heur = -9.0, depth = 9
iter = 11456, queue = 17111, heur = -9.0, depth = 10
iter = 11457, queue = 17113, heur = -9.0, depth = 9
iter = 11458, queue = 17116, heur = -9.0, depth = 9
iter = 11459, queue = 17119, heur = -9.0, depth = 9
iter = 11460, queue = 17120, heur = -9.0, depth = 9
iter = 11461, queue = 17121, heur = -9.0, depth = 9
iter = 11462, queue = 17124, heur = -9.0, depth = 9
iter = 11463, queue = 17126, heur = -9.0, depth = 9
iter = 11464, queue = 17126, heur = -9.0, depth = 9
iter = 11465, queue = 17127, heur = -9.0, depth = 9
iter = 11466, queue = 17130, heur = -9.0, depth = 12
iter = 11467, queue = 17131, heur = -9.0, depth = 9
iter = 11468, queue = 17133, heur = -9.0, depth = 9
iter = 11469, queue = 17132, heur = -9.0, depth = 9
iter = 11470, queue = 17133, heur = -9.0, depth = 9
iter = 11471, queue = 17134, heur = -9.0, depth = 10
iter = 11472, queue = 17135, heur = -9.0, depth = 9
iter = 11473, queue = 17138, heur = -9.0, depth = 9
iter = 11474, queue = 17141, heur = -9.0, depth = 12
iter = 11475, queue = 17142, heur = -9.0, depth = 9
iter = 11476, queue = 17143, heur = -9.0, depth = 9
iter = 11477, queue = 17146, heur = -9.0, depth = 9
iter = 11478, queue = 17147, heur = -9.0, depth = 9
iter = 11479, queue = 17150, heur = -9.0, depth = 9
iter = 11480, queue = 17152, heur = -9.0, depth = 9
iter = 11481, queue = 17153, heur = -9.0, depth = 12
iter = 11482, queue = 17156, heur = -9.0, depth = 9
iter = 11483, queue = 17157, heur = -9.0, depth = 9
iter = 11484, queue = 17160, heur = -9.0, depth = 9
iter = 11485, queue = 17162, heur = -9.0, depth = 9
iter = 11486, queue = 17163, heur = -9.0, depth = 9
iter = 11487, queue = 17166, heur = -9.0, depth = 10
iter = 11488, queue = 17169, heur = -9.0, depth = 9
iter = 11489, queue = 17170, heur = -9.0, depth = 9
iter = 11490, queue = 17169, heur = -9.0, depth = 9
iter = 11491, queue = 17170, heur = -9.0, depth = 9
iter = 11492, queue = 17171, heur = -9.0, depth = 9
iter = 11493, queue = 17173, heur = -9.0, depth = 9
iter = 11494, queue = 17174, heur = -9.0, depth = 9
iter = 11495, queue = 17177, heur = -9.0, depth = 9
iter = 11496, queue = 17176, heur = -9.0, depth = 9
iter = 11497, queue = 17177, heur = -9.0, depth = 9
iter = 11498, queue = 17179, heur = -9.0, depth = 9
iter = 11499, queue = 17180, heur = -9.0, depth = 9
iter = 11500, queue = 17181, heur = -9.0, depth = 9
iter = 11501, queue = 17182, heur = -9.0, depth = 9
iter = 11502, queue = 17183, heur = -9.0, depth = 9
iter = 11503, queue = 17186, heur = -9.0, depth = 9
```

```
iter = 11504, queue = 17187, heur = -9.0, depth = 9
iter = 11505, queue = 17190, heur = -9.0, depth = 9
iter = 11506, queue = 17193, heur = -9.0, depth = 9
iter = 11507, queue = 17196, heur = -9.0, depth = 9
iter = 11508, queue = 17198, heur = -9.0, depth = 9
iter = 11509, queue = 17199, heur = -9.0, depth = 9
iter = 11510, queue = 17199, heur = -9.0, depth = 9
iter = 11511, queue = 17200, heur = -9.0, depth = 9
iter = 11512, queue = 17203, heur = -9.0, depth = 9
iter = 11513, queue = 17204, heur = -9.0, depth = 9
iter = 11514, queue = 17206, heur = -9.0, depth = 9
iter = 11515, queue = 17207, heur = -9.0, depth = 9
iter = 11516, queue = 17210, heur = -9.0, depth = 9
iter = 11517, queue = 17211, heur = -9.0, depth = 9
iter = 11518, queue = 17214, heur = -9.0, depth = 9
iter = 11519, queue = 17215, heur = -9.0, depth = 9
iter = 11520, queue = 17217, heur = -9.0, depth = 9
iter = 11521, queue = 17219, heur = -9.0, depth = 9
iter = 11522, queue = 17222, heur = -9.0, depth = 9
iter = 11523, queue = 17222, heur = -9.0, depth = 9
iter = 11524, queue = 17223, heur = -9.0, depth = 9
iter = 11525, queue = 17224, heur = -9.0, depth = 10
iter = 11526, queue = 17227, heur = -9.0, depth = 9
iter = 11527, queue = 17228, heur = -9.0, depth = 9
iter = 11528, queue = 17229, heur = -9.0, depth = 9
iter = 11529, queue = 17228, heur = -9.0, depth = 9
iter = 11530, queue = 17230, heur = -9.0, depth = 10
iter = 11531, queue = 17233, heur = -9.0, depth = 9
iter = 11532, queue = 17236, heur = -9.0, depth = 9
iter = 11533, queue = 17239, heur = -9.0, depth = 10
iter = 11534, queue = 17242, heur = -9.0, depth = 9
iter = 11535, queue = 17245, heur = -9.0, depth = 9
iter = 11536, queue = 17246, heur = -9.0, depth = 9
iter = 11537, queue = 17249, heur = -9.0, depth = 9
iter = 11538, queue = 17250, heur = -9.0, depth = 9
iter = 11539, queue = 17253, heur = -9.0, depth = 9
iter = 11540, queue = 17256, heur = -9.0, depth = 9
iter = 11541, queue = 17259, heur = -9.0, depth = 9
iter = 11542, queue = 17260, heur = -9.0, depth = 9
iter = 11543, queue = 17261, heur = -9.0, depth = 9
iter = 11544, queue = 17261, heur = -9.0, depth = 9
iter = 11545, queue = 17261, heur = -9.0, depth = 9
iter = 11546, queue = 17262, heur = -9.0, depth = 10
iter = 11547, queue = 17263, heur = -9.0, depth = 9
iter = 11548, queue = 17264, heur = -9.0, depth = 9
iter = 11549, queue = 17266, heur = -9.0, depth = 10
iter = 11550, queue = 17267, heur = -9.0, depth = 9
iter = 11551, queue = 17268, heur = -9.0, depth = 9
iter = 11552, queue = 17271, heur = -9.0, depth = 9
iter = 11553, queue = 17272, heur = -9.0, depth = 10
iter = 11554, queue = 17273, heur = -9.0, depth = 9
iter = 11555, queue = 17275, heur = -9.0, depth = 9
iter = 11556, queue = 17276, heur = -9.0, depth = 10
iter = 11557, queue = 17279, heur = -9.0, depth = 9
iter = 11558, queue = 17282, heur = -9.0, depth = 9
iter = 11559, queue = 17283, heur = -9.0, depth = 9
iter = 11560, queue = 17286, heur = -9.0, depth = 9
iter = 11561, queue = 17285, heur = -9.0, depth = 10
iter = 11562, queue = 17286, heur = -9.0, depth = 9
```

```
iter = 11563, queue = 17287, heur = -9.0, depth = 9
iter = 11564, queue = 17288, heur = -9.0, depth = 10
iter = 11565, queue = 17287, heur = -9.0, depth = 9
iter = 11566, queue = 17289, heur = -9.0, depth = 9
iter = 11567, queue = 17292, heur = -9.0, depth = 9
iter = 11568, queue = 17293, heur = -9.0, depth = 9
iter = 11569, queue = 17296, heur = -9.0, depth = 9
iter = 11570, queue = 17295, heur = -9.0, depth = 9
iter = 11571, queue = 17297, heur = -9.0, depth = 9
iter = 11572, queue = 17298, heur = -9.0, depth = 9
iter = 11573, queue = 17301, heur = -9.0, depth = 9
iter = 11574, queue = 17300, heur = -9.0, depth = 10
iter = 11575, queue = 17301, heur = -9.0, depth = 9
iter = 11576, queue = 17303, heur = -9.0, depth = 9
iter = 11577, queue = 17304, heur = -9.0, depth = 9
iter = 11578, queue = 17307, heur = -9.0, depth = 9
iter = 11579, queue = 17306, heur = -9.0, depth = 9
iter = 11580, queue = 17307, heur = -9.0, depth = 9
iter = 11581, queue = 17308, heur = -9.0, depth = 9
iter = 11582, queue = 17311, heur = -9.0, depth = 9
iter = 11583, queue = 17312, heur = -9.0, depth = 9
iter = 11584, queue = 17314, heur = -9.0, depth = 9
iter = 11585, queue = 17317, heur = -9.0, depth = 9
iter = 11586, queue = 17318, heur = -9.0, depth = 9
iter = 11587, queue = 17319, heur = -9.0, depth = 9
iter = 11588, queue = 17320, heur = -9.0, depth = 9
iter = 11589, queue = 17321, heur = -9.0, depth = 9
iter = 11590, queue = 17322, heur = -9.0, depth = 9
iter = 11591, queue = 17323, heur = -9.0, depth = 9
iter = 11592, queue = 17325, heur = -9.0, depth = 9
iter = 11593, queue = 17326, heur = -9.0, depth = 9
iter = 11594, queue = 17328, heur = -9.0, depth = 9
iter = 11595, queue = 17331, heur = -9.0, depth = 9
iter = 11596, queue = 17334, heur = -9.0, depth = 9
iter = 11597, queue = 17335, heur = -9.0, depth = 9
iter = 11598, queue = 17337, heur = -9.0, depth = 9
iter = 11599, queue = 17340, heur = -9.0, depth = 9
iter = 11600, queue = 17339, heur = -9.0, depth = 9
iter = 11601, queue = 17342, heur = -9.0, depth = 9
iter = 11602, queue = 17341, heur = -9.0, depth = 9
iter = 11603, queue = 17342, heur = -9.0, depth = 9
iter = 11604, queue = 17344, heur = -9.0, depth = 9
iter = 11605, queue = 17346, heur = -9.0, depth = 9
iter = 11606, queue = 17348, heur = -9.0, depth = 10
iter = 11607, queue = 17350, heur = -9.0, depth = 9
iter = 11608, queue = 17351, heur = -9.0, depth = 9
iter = 11609, queue = 17354, heur = -9.0, depth = 9
iter = 11610, queue = 17353, heur = -9.0, depth = 10
iter = 11611, queue = 17355, heur = -9.0, depth = 9
iter = 11612, queue = 17358, heur = -9.0, depth = 9
iter = 11613, queue = 17359, heur = -9.0, depth = 9
iter = 11614, queue = 17360, heur = -9.0, depth = 9
iter = 11615, queue = 17363, heur = -9.0, depth = 9
iter = 11616, queue = 17364, heur = -9.0, depth = 9
iter = 11617, queue = 17367, heur = -9.0, depth = 9
iter = 11618, queue = 17368, heur = -9.0, depth = 9
iter = 11619, queue = 17369, heur = -9.0, depth = 9
iter = 11620, queue = 17371, heur = -9.0, depth = 9
iter = 11621, queue = 17372, heur = -9.0, depth = 9
```

```
iter = 11622, queue = 17374, heur = -9.0, depth = 9
iter = 11623, queue = 17377, heur = -9.0, depth = 9
iter = 11624, queue = 17380, heur = -9.0, depth = 9
iter = 11625, queue = 17379, heur = -9.0, depth = 9
iter = 11626, queue = 17382, heur = -9.0, depth = 9
iter = 11627, queue = 17384, heur = -9.0, depth = 9
iter = 11628, queue = 17385, heur = -9.0, depth = 9
iter = 11629, queue = 17388, heur = -9.0, depth = 9
iter = 11630, queue = 17389, heur = -9.0, depth = 9
iter = 11631, queue = 17391, heur = -9.0, depth = 9
iter = 11632, queue = 17394, heur = -9.0, depth = 9
iter = 11633, queue = 17396, heur = -9.0, depth = 9
iter = 11634, queue = 17397, heur = -9.0, depth = 9
iter = 11635, queue = 17399, heur = -9.0, depth = 9
iter = 11636, queue = 17402, heur = -9.0, depth = 9
iter = 11637, queue = 17405, heur = -9.0, depth = 9
iter = 11638, queue = 17406, heur = -9.0, depth = 9
iter = 11639, queue = 17405, heur = -9.0, depth = 9
iter = 11640, queue = 17406, heur = -9.0, depth = 9
iter = 11641, queue = 17405, heur = -9.0, depth = 10
iter = 11642, queue = 17408, heur = -9.0, depth = 9
iter = 11643, queue = 17411, heur = -9.0, depth = 10
iter = 11644, queue = 17412, heur = -9.0, depth = 9
iter = 11645, queue = 17414, heur = -9.0, depth = 9
iter = 11646, queue = 17417, heur = -9.0, depth = 10
iter = 11647, queue = 17418, heur = -9.0, depth = 9
iter = 11648, queue = 17419, heur = -9.0, depth = 9
iter = 11649, queue = 17420, heur = -9.0, depth = 9
iter = 11650, queue = 17422, heur = -9.0, depth = 9
iter = 11651, queue = 17422, heur = -9.0, depth = 9
iter = 11652, queue = 17425, heur = -9.0, depth = 9
iter = 11653, queue = 17428, heur = -9.0, depth = 9
iter = 11654, queue = 17429, heur = -9.0, depth = 9
iter = 11655, queue = 17432, heur = -9.0, depth = 9
iter = 11656, queue = 17434, heur = -9.0, depth = 9
iter = 11657, queue = 17437, heur = -9.0, depth = 9
iter = 11658, queue = 17437, heur = -9.0, depth = 9
iter = 11659, queue = 17438, heur = -9.0, depth = 9
iter = 11660, queue = 17441, heur = -9.0, depth = 9
iter = 11661, queue = 17442, heur = -9.0, depth = 11
iter = 11662, queue = 17443, heur = -9.0, depth = 9
iter = 11663, queue = 17444, heur = -9.0, depth = 9
iter = 11664, queue = 17446, heur = -9.0, depth = 9
iter = 11665, queue = 17445, heur = -9.0, depth = 9
iter = 11666, queue = 17444, heur = -9.0, depth = 9
iter = 11667, queue = 17447, heur = -9.0, depth = 9
iter = 11668, queue = 17450, heur = -9.0, depth = 9
iter = 11669, queue = 17451, heur = -9.0, depth = 9
iter = 11670, queue = 17453, heur = -9.0, depth = 9
iter = 11671, queue = 17454, heur = -9.0, depth = 9
iter = 11672, queue = 17455, heur = -9.0, depth = 9
iter = 11673, queue = 17456, heur = -9.0, depth = 9
iter = 11674, queue = 17457, heur = -9.0, depth = 9
iter = 11675, queue = 17456, heur = -9.0, depth = 9
iter = 11676, queue = 17459, heur = -9.0, depth = 9
iter = 11677, queue = 17460, heur = -9.0, depth = 9
iter = 11678, queue = 17461, heur = -9.0, depth = 10
iter = 11679, queue = 17464, heur = -9.0, depth = 11
iter = 11680, queue = 17467, heur = -9.0, depth = 9
```

```
iter = 11681, queue = 17468, heur = -9.0, depth = 9
iter = 11682, queue = 17471, heur = -9.0, depth = 11
iter = 11683, queue = 17474, heur = -9.0, depth = 11
iter = 11684, queue = 17477, heur = -9.0, depth = 9
iter = 11685, queue = 17480, heur = -9.0, depth = 9
iter = 11686, queue = 17481, heur = -9.0, depth = 9
iter = 11687, queue = 17482, heur = -9.0, depth = 9
iter = 11688, queue = 17484, heur = -9.0, depth = 9
iter = 11689, queue = 17487, heur = -9.0, depth = 9
iter = 11690, queue = 17488, heur = -9.0, depth = 10
iter = 11691, queue = 17491, heur = -9.0, depth = 10
iter = 11692, queue = 17494, heur = -9.0, depth = 9
iter = 11693, queue = 17497, heur = -9.0, depth = 9
iter = 11694, queue = 17498, heur = -9.0, depth = 9
iter = 11695, queue = 17499, heur = -9.0, depth = 9
iter = 11696, queue = 17502, heur = -9.0, depth = 9
iter = 11697, queue = 17503, heur = -9.0, depth = 9
iter = 11698, queue = 17503, heur = -9.0, depth = 9
iter = 11699, queue = 17504, heur = -9.0, depth = 9
iter = 11700, queue = 17505, heur = -9.0, depth = 9
iter = 11701, queue = 17508, heur = -9.0, depth = 9
iter = 11702, queue = 17508, heur = -9.0, depth = 9
iter = 11703, queue = 17511, heur = -9.0, depth = 9
iter = 11704, queue = 17512, heur = -9.0, depth = 9
iter = 11705, queue = 17513, heur = -9.0, depth = 9
iter = 11706, queue = 17512, heur = -9.0, depth = 9
iter = 11707, queue = 17513, heur = -9.0, depth = 9
iter = 11708, queue = 17513, heur = -9.0, depth = 9
iter = 11709, queue = 17515, heur = -9.0, depth = 9
iter = 11710, queue = 17517, heur = -9.0, depth = 9
iter = 11711, queue = 17520, heur = -9.0, depth = 9
iter = 11712, queue = 17522, heur = -9.0, depth = 9
iter = 11713, queue = 17523, heur = -9.0, depth = 9
iter = 11714, queue = 17524, heur = -9.0, depth = 9
iter = 11715, queue = 17526, heur = -9.0, depth = 9
iter = 11716, queue = 17529, heur = -9.0, depth = 9
iter = 11717, queue = 17532, heur = -9.0, depth = 9
iter = 11718, queue = 17533, heur = -9.0, depth = 9
iter = 11719, queue = 17536, heur = -9.0, depth = 9
iter = 11720, queue = 17536, heur = -9.0, depth = 9
iter = 11721, queue = 17535, heur = -9.0, depth = 9
iter = 11722, queue = 17538, heur = -9.0, depth = 9
iter = 11723, queue = 17541, heur = -9.0, depth = 9
iter = 11724, queue = 17544, heur = -9.0, depth = 9
iter = 11725, queue = 17546, heur = -9.0, depth = 9
iter = 11726, queue = 17549, heur = -9.0, depth = 9
iter = 11727, queue = 17551, heur = -9.0, depth = 9
iter = 11728, queue = 17551, heur = -9.0, depth = 10
iter = 11729, queue = 17552, heur = -9.0, depth = 9
iter = 11730, queue = 17555, heur = -9.0, depth = 9
iter = 11731, queue = 17556, heur = -9.0, depth = 10
iter = 11732, queue = 17555, heur = -9.0, depth = 9
iter = 11733, queue = 17558, heur = -9.0, depth = 9
iter = 11734, queue = 17560, heur = -9.0, depth = 9
iter = 11735, queue = 17559, heur = -9.0, depth = 9
iter = 11736, queue = 17562, heur = -9.0, depth = 9
iter = 11737, queue = 17565, heur = -9.0, depth = 9
iter = 11738, queue = 17564, heur = -9.0, depth = 9
iter = 11739, queue = 17567, heur = -9.0, depth = 9
```

```
iter = 11740, queue = 17570, heur = -9.0, depth = 10
iter = 11741, queue = 17572, heur = -9.0, depth = 9
iter = 11742, queue = 17575, heur = -9.0, depth = 9
iter = 11743, queue = 17578, heur = -9.0, depth = 9
iter = 11744, queue = 17578, heur = -9.0, depth = 10
iter = 11745, queue = 17579, heur = -9.0, depth = 9
iter = 11746, queue = 17582, heur = -9.0, depth = 9
iter = 11747, queue = 17584, heur = -9.0, depth = 9
iter = 11748, queue = 17584, heur = -9.0, depth = 9
iter = 11749, queue = 17585, heur = -9.0, depth = 9
iter = 11750, queue = 17587, heur = -9.0, depth = 9
iter = 11751, queue = 17588, heur = -9.0, depth = 9
iter = 11752, queue = 17589, heur = -9.0, depth = 9
iter = 11753, queue = 17592, heur = -9.0, depth = 9
iter = 11754, queue = 17594, heur = -9.0, depth = 9
iter = 11755, queue = 17595, heur = -9.0, depth = 9
iter = 11756, queue = 17598, heur = -9.0, depth = 9
iter = 11757, queue = 17599, heur = -9.0, depth = 10
iter = 11758, queue = 17600, heur = -9.0, depth = 9
iter = 11759, queue = 17601, heur = -9.0, depth = 9
iter = 11760, queue = 17604, heur = -9.0, depth = 9
iter = 11761, queue = 17605, heur = -9.0, depth = 9
iter = 11762, queue = 17606, heur = -9.0, depth = 9
iter = 11763, queue = 17607, heur = -9.0, depth = 9
iter = 11764, queue = 17610, heur = -9.0, depth = 9
iter = 11765, queue = 17613, heur = -9.0, depth = 9
iter = 11766, queue = 17614, heur = -9.0, depth = 9
iter = 11767, queue = 17617, heur = -9.0, depth = 9
iter = 11768, queue = 17620, heur = -9.0, depth = 9
iter = 11769, queue = 17622, heur = -9.0, depth = 9
iter = 11770, queue = 17625, heur = -9.0, depth = 9
iter = 11771, queue = 17625, heur = -9.0, depth = 9
iter = 11772, queue = 17625, heur = -9.0, depth = 9
iter = 11773, queue = 17628, heur = -9.0, depth = 10
iter = 11774, queue = 17631, heur = -9.0, depth = 10
iter = 11775, queue = 17632, heur = -9.0, depth = 9
iter = 11776, queue = 17635, heur = -9.0, depth = 9
iter = 11777, queue = 17638, heur = -9.0, depth = 10
iter = 11778, queue = 17639, heur = -9.0, depth = 10
iter = 11779, queue = 17640, heur = -9.0, depth = 9
iter = 11780, queue = 17643, heur = -9.0, depth = 10
iter = 11781, queue = 17645, heur = -9.0, depth = 9
iter = 11782, queue = 17646, heur = -9.0, depth = 9
iter = 11783, queue = 17647, heur = -9.0, depth = 9
iter = 11784, queue = 17649, heur = -9.0, depth = 9
iter = 11785, queue = 17651, heur = -9.0, depth = 9
iter = 11786, queue = 17652, heur = -9.0, depth = 9
iter = 11787, queue = 17655, heur = -9.0, depth = 9
iter = 11788, queue = 17656, heur = -9.0, depth = 9
iter = 11789, queue = 17659, heur = -9.0, depth = 9
iter = 11790, queue = 17662, heur = -9.0, depth = 9
iter = 11791, queue = 17661, heur = -9.0, depth = 9
iter = 11792, queue = 17662, heur = -9.0, depth = 9
iter = 11793, queue = 17663, heur = -9.0, depth = 9
iter = 11794, queue = 17663, heur = -9.0, depth = 9
iter = 11795, queue = 17666, heur = -9.0, depth = 9
iter = 11796, queue = 17667, heur = -9.0, depth = 9
iter = 11797, queue = 17667, heur = -9.0, depth = 9
iter = 11798, queue = 17666, heur = -9.0, depth = 9
```

```
iter = 11799, queue = 17667, heur = -9.0, depth = 9
iter = 11800, queue = 17669, heur = -9.0, depth = 9
iter = 11801, queue = 17670, heur = -9.0, depth = 10
iter = 11802, queue = 17673, heur = -9.0, depth = 10
iter = 11803, queue = 17676, heur = -9.0, depth = 9
iter = 11804, queue = 17675, heur = -9.0, depth = 9
iter = 11805, queue = 17677, heur = -9.0, depth = 9
iter = 11806, queue = 17680, heur = -9.0, depth = 9
iter = 11807, queue = 17681, heur = -9.0, depth = 9
iter = 11808, queue = 17682, heur = -9.0, depth = 9
iter = 11809, queue = 17683, heur = -9.0, depth = 9
iter = 11810, queue = 17686, heur = -9.0, depth = 9
iter = 11811, queue = 17687, heur = -9.0, depth = 9
iter = 11812, queue = 17690, heur = -9.0, depth = 9
iter = 11813, queue = 17691, heur = -9.0, depth = 9
iter = 11814, queue = 17694, heur = -9.0, depth = 9
iter = 11815, queue = 17694, heur = -9.0, depth = 9
iter = 11816, queue = 17697, heur = -9.0, depth = 9
iter = 11817, queue = 17700, heur = -9.0, depth = 9
iter = 11818, queue = 17702, heur = -9.0, depth = 9
iter = 11819, queue = 17703, heur = -9.0, depth = 9
iter = 11820, queue = 17704, heur = -9.0, depth = 9
iter = 11821, queue = 17705, heur = -9.0, depth = 9
iter = 11822, queue = 17705, heur = -9.0, depth = 9
iter = 11823, queue = 17708, heur = -9.0, depth = 9
iter = 11824, queue = 17709, heur = -9.0, depth = 9
iter = 11825, queue = 17711, heur = -9.0, depth = 9
iter = 11826, queue = 17714, heur = -9.0, depth = 9
iter = 11827, queue = 17715, heur = -9.0, depth = 9
iter = 11828, queue = 17716, heur = -9.0, depth = 9
iter = 11829, queue = 17717, heur = -9.0, depth = 9
iter = 11830, queue = 17718, heur = -9.0, depth = 9
iter = 11831, queue = 17719, heur = -9.0, depth = 9
iter = 11832, queue = 17720, heur = -9.0, depth = 9
iter = 11833, queue = 17719, heur = -9.0, depth = 9
iter = 11834, queue = 17720, heur = -9.0, depth = 9
iter = 11835, queue = 17723, heur = -9.0, depth = 9
iter = 11836, queue = 17724, heur = -9.0, depth = 9
iter = 11837, queue = 17725, heur = -9.0, depth = 9
iter = 11838, queue = 17725, heur = -9.0, depth = 9
iter = 11839, queue = 17726, heur = -9.0, depth = 9
iter = 11840, queue = 17729, heur = -9.0, depth = 9
iter = 11841, queue = 17731, heur = -9.0, depth = 9
iter = 11842, queue = 17730, heur = -9.0, depth = 9
iter = 11843, queue = 17732, heur = -9.0, depth = 9
iter = 11844, queue = 17733, heur = -9.0, depth = 9
iter = 11845, queue = 17736, heur = -9.0, depth = 9
iter = 11846, queue = 17738, heur = -9.0, depth = 9
iter = 11847, queue = 17737, heur = -9.0, depth = 9
iter = 11848, queue = 17739, heur = -9.0, depth = 9
iter = 11849, queue = 17741, heur = -9.0, depth = 9
iter = 11850, queue = 17742, heur = -9.0, depth = 9
iter = 11851, queue = 17743, heur = -9.0, depth = 9
iter = 11852, queue = 17744, heur = -9.0, depth = 9
iter = 11853, queue = 17745, heur = -9.0, depth = 9
iter = 11854, queue = 17746, heur = -9.0, depth = 9
iter = 11855, queue = 17747, heur = -9.0, depth = 9
iter = 11856, queue = 17748, heur = -9.0, depth = 9
iter = 11857, queue = 17751, heur = -9.0, depth = 9
```

```
iter = 11858, queue = 17753, heur = -9.0, depth = 9
iter = 11859, queue = 17754, heur = -9.0, depth = 9
iter = 11860, queue = 17755, heur = -9.0, depth = 9
iter = 11861, queue = 17755, heur = -9.0, depth = 9
iter = 11862, queue = 17754, heur = -9.0, depth = 9
iter = 11863, queue = 17755, heur = -9.0, depth = 9
iter = 11864, queue = 17756, heur = -9.0, depth = 9
iter = 11865, queue = 17759, heur = -9.0, depth = 9
iter = 11866, queue = 17761, heur = -9.0, depth = 9
iter = 11867, queue = 17763, heur = -9.0, depth = 9
iter = 11868, queue = 17766, heur = -9.0, depth = 9
iter = 11869, queue = 17767, heur = -9.0, depth = 9
iter = 11870, queue = 17768, heur = -9.0, depth = 9
iter = 11871, queue = 17768, heur = -9.0, depth = 9
iter = 11872, queue = 17770, heur = -9.0, depth = 9
iter = 11873, queue = 17773, heur = -9.0, depth = 9
iter = 11874, queue = 17775, heur = -9.0, depth = 9
iter = 11875, queue = 17778, heur = -9.0, depth = 9
iter = 11876, queue = 17779, heur = -9.0, depth = 9
iter = 11877, queue = 17780, heur = -9.0, depth = 9
iter = 11878, queue = 17781, heur = -9.0, depth = 9
iter = 11879, queue = 17783, heur = -9.0, depth = 9
iter = 11880, queue = 17784, heur = -9.0, depth = 9
iter = 11881, queue = 17786, heur = -9.0, depth = 9
iter = 11882, queue = 17788, heur = -9.0, depth = 9
iter = 11883, queue = 17789, heur = -9.0, depth = 9
iter = 11884, queue = 17791, heur = -9.0, depth = 9
iter = 11885, queue = 17792, heur = -9.0, depth = 9
iter = 11886, queue = 17795, heur = -9.0, depth = 9
iter = 11887, queue = 17798, heur = -9.0, depth = 9
iter = 11888, queue = 17800, heur = -9.0, depth = 10
iter = 11889, queue = 17802, heur = -9.0, depth = 9
iter = 11890, queue = 17805, heur = -9.0, depth = 9
iter = 11891, queue = 17806, heur = -9.0, depth = 9
iter = 11892, queue = 17807, heur = -9.0, depth = 10
iter = 11893, queue = 17809, heur = -9.0, depth = 9
iter = 11894, queue = 17809, heur = -9.0, depth = 9
iter = 11895, queue = 17810, heur = -9.0, depth = 9
iter = 11896, queue = 17811, heur = -9.0, depth = 9
iter = 11897, queue = 17812, heur = -9.0, depth = 9
iter = 11898, queue = 17812, heur = -9.0, depth = 9
iter = 11899, queue = 17812, heur = -9.0, depth = 9
iter = 11900, queue = 17813, heur = -9.0, depth = 10
iter = 11901, queue = 17814, heur = -9.0, depth = 9
iter = 11902, queue = 17815, heur = -9.0, depth = 9
iter = 11903, queue = 17817, heur = -9.0, depth = 10
iter = 11904, queue = 17819, heur = -9.0, depth = 9
iter = 11905, queue = 17819, heur = -9.0, depth = 9
iter = 11906, queue = 17821, heur = -9.0, depth = 9
iter = 11907, queue = 17822, heur = -9.0, depth = 9
iter = 11908, queue = 17825, heur = -9.0, depth = 9
iter = 11909, queue = 17826, heur = -9.0, depth = 9
iter = 11910, queue = 17826, heur = -9.0, depth = 9
iter = 11911, queue = 17827, heur = -9.0, depth = 9
iter = 11912, queue = 17828, heur = -9.0, depth = 9
iter = 11913, queue = 17831, heur = -9.0, depth = 9
iter = 11914, queue = 17834, heur = -9.0, depth = 9
iter = 11915, queue = 17836, heur = -9.0, depth = 9
iter = 11916, queue = 17835, heur = -9.0, depth = 9
```

```
iter = 11917, queue = 17837, heur = -9.0, depth = 9
iter = 11918, queue = 17840, heur = -9.0, depth = 9
iter = 11919, queue = 17841, heur = -9.0, depth = 9
iter = 11920, queue = 17843, heur = -9.0, depth = 9
iter = 11921, queue = 17844, heur = -9.0, depth = 9
iter = 11922, queue = 17845, heur = -9.0, depth = 9
iter = 11923, queue = 17845, heur = -9.0, depth = 9
iter = 11924, queue = 17846, heur = -9.0, depth = 9
iter = 11925, queue = 17847, heur = -9.0, depth = 9
iter = 11926, queue = 17848, heur = -9.0, depth = 9
iter = 11927, queue = 17851, heur = -9.0, depth = 9
iter = 11928, queue = 17854, heur = -9.0, depth = 9
iter = 11929, queue = 17853, heur = -9.0, depth = 9
iter = 11930, queue = 17854, heur = -9.0, depth = 9
iter = 11931, queue = 17857, heur = -9.0, depth = 9
iter = 11932, queue = 17859, heur = -9.0, depth = 9
iter = 11933, queue = 17860, heur = -9.0, depth = 9
iter = 11934, queue = 17863, heur = -9.0, depth = 9
iter = 11935, queue = 17863, heur = -9.0, depth = 9
iter = 11936, queue = 17866, heur = -9.0, depth = 9
iter = 11937, queue = 17867, heur = -9.0, depth = 9
iter = 11938, queue = 17869, heur = -9.0, depth = 9
iter = 11939, queue = 17869, heur = -9.0, depth = 9
iter = 11940, queue = 17872, heur = -9.0, depth = 9
iter = 11941, queue = 17873, heur = -9.0, depth = 9
iter = 11942, queue = 17874, heur = -9.0, depth = 9
iter = 11943, queue = 17875, heur = -9.0, depth = 9
iter = 11944, queue = 17878, heur = -9.0, depth = 9
iter = 11945, queue = 17880, heur = -9.0, depth = 9
iter = 11946, queue = 17879, heur = -9.0, depth = 9
iter = 11947, queue = 17880, heur = -9.0, depth = 9
iter = 11948, queue = 17883, heur = -9.0, depth = 9
iter = 11949, queue = 17886, heur = -9.0, depth = 9
iter = 11950, queue = 17889, heur = -9.0, depth = 9
iter = 11951, queue = 17892, heur = -9.0, depth = 9
iter = 11952, queue = 17895, heur = -9.0, depth = 9
iter = 11953, queue = 17898, heur = -9.0, depth = 9
iter = 11954, queue = 17899, heur = -9.0, depth = 9
iter = 11955, queue = 17902, heur = -9.0, depth = 11
iter = 11956, queue = 17905, heur = -9.0, depth = 9
iter = 11957, queue = 17904, heur = -9.0, depth = 9
iter = 11958, queue = 17905, heur = -9.0, depth = 9
iter = 11959, queue = 17906, heur = -9.0, depth = 9
iter = 11960, queue = 17905, heur = -9.0, depth = 9
iter = 11961, queue = 17905, heur = -9.0, depth = 10
iter = 11962, queue = 17908, heur = -9.0, depth = 9
iter = 11963, queue = 17907, heur = -9.0, depth = 9
iter = 11964, queue = 17907, heur = -9.0, depth = 9
iter = 11965, queue = 17910, heur = -9.0, depth = 9
iter = 11966, queue = 17911, heur = -9.0, depth = 9
iter = 11967, queue = 17914, heur = -9.0, depth = 9
iter = 11968, queue = 17915, heur = -9.0, depth = 9
iter = 11969, queue = 17916, heur = -9.0, depth = 9
iter = 11970, queue = 17915, heur = -9.0, depth = 9
iter = 11971, queue = 17915, heur = -9.0, depth = 9
iter = 11972, queue = 17917, heur = -9.0, depth = 10
iter = 11973, queue = 17920, heur = -9.0, depth = 10
iter = 11974, queue = 17923, heur = -9.0, depth = 11
iter = 11975, queue = 17924, heur = -9.0, depth = 9
```

```
iter = 11976, queue = 17923, heur = -9.0, depth = 9
iter = 11977, queue = 17923, heur = -9.0, depth = 10
iter = 11978, queue = 17924, heur = -9.0, depth = 9
iter = 11979, queue = 17926, heur = -9.0, depth = 9
iter = 11980, queue = 17925, heur = -9.0, depth = 10
iter = 11981, queue = 17926, heur = -9.0, depth = 9
iter = 11982, queue = 17927, heur = -9.0, depth = 9
iter = 11983, queue = 17930, heur = -9.0, depth = 9
iter = 11984, queue = 17930, heur = -9.0, depth = 9
iter = 11985, queue = 17933, heur = -9.0, depth = 9
iter = 11986, queue = 17934, heur = -9.0, depth = 9
iter = 11987, queue = 17933, heur = -9.0, depth = 9
iter = 11988, queue = 17932, heur = -9.0, depth = 9
iter = 11989, queue = 17935, heur = -9.0, depth = 9
iter = 11990, queue = 17938, heur = -9.0, depth = 9
iter = 11991, queue = 17939, heur = -9.0, depth = 9
iter = 11992, queue = 17940, heur = -9.0, depth = 9
iter = 11993, queue = 17942, heur = -9.0, depth = 9
iter = 11994, queue = 17944, heur = -9.0, depth = 10
iter = 11995, queue = 17947, heur = -9.0, depth = 11
iter = 11996, queue = 17949, heur = -9.0, depth = 9
iter = 11997, queue = 17952, heur = -9.0, depth = 11
iter = 11998, queue = 17954, heur = -9.0, depth = 9
iter = 11999, queue = 17957, heur = -9.0, depth = 9
iter = 12000, queue = 17959, heur = -9.0, depth = 9
iter = 12001, queue = 17961, heur = -9.0, depth = 9
iter = 12002, queue = 17964, heur = -9.0, depth = 9
iter = 12003, queue = 17966, heur = -9.0, depth = 9
iter = 12004, queue = 17967, heur = -9.0, depth = 9
iter = 12005, queue = 17970, heur = -9.0, depth = 9
iter = 12006, queue = 17971, heur = -9.0, depth = 9
iter = 12007, queue = 17972, heur = -9.0, depth = 9
iter = 12008, queue = 17971, heur = -9.0, depth = 9
iter = 12009, queue = 17972, heur = -9.0, depth = 9
iter = 12010, queue = 17973, heur = -9.0, depth = 9
iter = 12011, queue = 17974, heur = -9.0, depth = 9
iter = 12012, queue = 17975, heur = -9.0, depth = 9
iter = 12013, queue = 17976, heur = -9.0, depth = 9
iter = 12014, queue = 17977, heur = -9.0, depth = 10
iter = 12015, queue = 17980, heur = -9.0, depth = 10
iter = 12016, queue = 17983, heur = -9.0, depth = 9
iter = 12017, queue = 17984, heur = -9.0, depth = 9
iter = 12018, queue = 17986, heur = -9.0, depth = 10
iter = 12019, queue = 17989, heur = -9.0, depth = 9
iter = 12020, queue = 17990, heur = -9.0, depth = 10
iter = 12021, queue = 17992, heur = -9.0, depth = 9
iter = 12022, queue = 17993, heur = -9.0, depth = 9
iter = 12023, queue = 17994, heur = -9.0, depth = 9
iter = 12024, queue = 17995, heur = -9.0, depth = 10
iter = 12025, queue = 17998, heur = -9.0, depth = 9
iter = 12026, queue = 18001, heur = -9.0, depth = 9
iter = 12027, queue = 18004, heur = -9.0, depth = 9
iter = 12028, queue = 18007, heur = -9.0, depth = 9
iter = 12029, queue = 18007, heur = -9.0, depth = 9
iter = 12030, queue = 18010, heur = -9.0, depth = 9
iter = 12031, queue = 18010, heur = -9.0, depth = 9
iter = 12032, queue = 18011, heur = -9.0, depth = 9
iter = 12033, queue = 18014, heur = -9.0, depth = 9
iter = 12034, queue = 18016, heur = -9.0, depth = 9
```

```
iter = 12035, queue = 18015, heur = -9.0, depth = 9
iter = 12036, queue = 18018, heur = -9.0, depth = 9
iter = 12037, queue = 18021, heur = -9.0, depth = 9
iter = 12038, queue = 18023, heur = -9.0, depth = 9
iter = 12039, queue = 18024, heur = -9.0, depth = 9
iter = 12040, queue = 18027, heur = -9.0, depth = 9
iter = 12041, queue = 18030, heur = -9.0, depth = 9
iter = 12042, queue = 18031, heur = -9.0, depth = 9
iter = 12043, queue = 18030, heur = -9.0, depth = 9
iter = 12044, queue = 18032, heur = -9.0, depth = 10
iter = 12045, queue = 18035, heur = -9.0, depth = 10
iter = 12046, queue = 18036, heur = -9.0, depth = 9
iter = 12047, queue = 18037, heur = -9.0, depth = 10
iter = 12048, queue = 18040, heur = -9.0, depth = 10
iter = 12049, queue = 18043, heur = -9.0, depth = 9
iter = 12050, queue = 18046, heur = -9.0, depth = 9
iter = 12051, queue = 18049, heur = -9.0, depth = 9
iter = 12052, queue = 18052, heur = -9.0, depth = 9
iter = 12053, queue = 18055, heur = -9.0, depth = 9
iter = 12054, queue = 18056, heur = -9.0, depth = 9
iter = 12055, queue = 18057, heur = -9.0, depth = 9
iter = 12056, queue = 18060, heur = -9.0, depth = 9
iter = 12057, queue = 18061, heur = -9.0, depth = 9
iter = 12058, queue = 18062, heur = -9.0, depth = 9
iter = 12059, queue = 18065, heur = -9.0, depth = 9
iter = 12060, queue = 18068, heur = -9.0, depth = 9
iter = 12061, queue = 18067, heur = -9.0, depth = 9
iter = 12062, queue = 18068, heur = -9.0, depth = 9
iter = 12063, queue = 18071, heur = -9.0, depth = 9
iter = 12064, queue = 18072, heur = -9.0, depth = 9
iter = 12065, queue = 18073, heur = -9.0, depth = 9
iter = 12066, queue = 18075, heur = -9.0, depth = 9
iter = 12067, queue = 18078, heur = -9.0, depth = 9
iter = 12068, queue = 18081, heur = -9.0, depth = 9
iter = 12069, queue = 18082, heur = -9.0, depth = 9
iter = 12070, queue = 18082, heur = -9.0, depth = 9
iter = 12071, queue = 18081, heur = -9.0, depth = 9
iter = 12072, queue = 18084, heur = -9.0, depth = 9
iter = 12073, queue = 18086, heur = -9.0, depth = 9
iter = 12074, queue = 18087, heur = -9.0, depth = 9
iter = 12075, queue = 18088, heur = -9.0, depth = 9
iter = 12076, queue = 18090, heur = -9.0, depth = 9
iter = 12077, queue = 18091, heur = -9.0, depth = 9
iter = 12078, queue = 18092, heur = -9.0, depth = 9
iter = 12079, queue = 18093, heur = -9.0, depth = 9
iter = 12080, queue = 18094, heur = -9.0, depth = 9
iter = 12081, queue = 18095, heur = -9.0, depth = 9
iter = 12082, queue = 18098, heur = -9.0, depth = 9
iter = 12083, queue = 18100, heur = -9.0, depth = 10
iter = 12084, queue = 18100, heur = -9.0, depth = 9
iter = 12085, queue = 18103, heur = -9.0, depth = 9
iter = 12086, queue = 18104, heur = -9.0, depth = 9
iter = 12087, queue = 18105, heur = -9.0, depth = 9
iter = 12088, queue = 18108, heur = -9.0, depth = 10
iter = 12089, queue = 18111, heur = -9.0, depth = 9
iter = 12090, queue = 18112, heur = -9.0, depth = 9
iter = 12091, queue = 18115, heur = -9.0, depth = 9
iter = 12092, queue = 18118, heur = -9.0, depth = 9
iter = 12093, queue = 18119, heur = -9.0, depth = 9
```

```
iter = 12094, queue = 18122, heur = -9.0, depth = 9
iter = 12095, queue = 18123, heur = -9.0, depth = 9
iter = 12096, queue = 18123, heur = -9.0, depth = 9
iter = 12097, queue = 18124, heur = -9.0, depth = 9
iter = 12098, queue = 18125, heur = -9.0, depth = 9
iter = 12099, queue = 18126, heur = -9.0, depth = 9
iter = 12100, queue = 18129, heur = -9.0, depth = 9
iter = 12101, queue = 18129, heur = -9.0, depth = 9
iter = 12102, queue = 18130, heur = -9.0, depth = 9
iter = 12103, queue = 18131, heur = -9.0, depth = 9
iter = 12104, queue = 18133, heur = -9.0, depth = 9
iter = 12105, queue = 18135, heur = -9.0, depth = 9
iter = 12106, queue = 18134, heur = -9.0, depth = 9
iter = 12107, queue = 18137, heur = -9.0, depth = 9
iter = 12108, queue = 18140, heur = -9.0, depth = 9
iter = 12109, queue = 18141, heur = -9.0, depth = 9
iter = 12110, queue = 18143, heur = -9.0, depth = 9
iter = 12111, queue = 18146, heur = -9.0, depth = 9
iter = 12112, queue = 18149, heur = -9.0, depth = 9
iter = 12113, queue = 18152, heur = -9.0, depth = 9
iter = 12114, queue = 18155, heur = -9.0, depth = 9
iter = 12115, queue = 18157, heur = -9.0, depth = 10
iter = 12116, queue = 18160, heur = -9.0, depth = 9
iter = 12117, queue = 18161, heur = -9.0, depth = 9
iter = 12118, queue = 18161, heur = -9.0, depth = 9
iter = 12119, queue = 18163, heur = -9.0, depth = 9
iter = 12120, queue = 18166, heur = -9.0, depth = 9
iter = 12121, queue = 18167, heur = -9.0, depth = 9
iter = 12122, queue = 18170, heur = -9.0, depth = 9
iter = 12123, queue = 18171, heur = -9.0, depth = 9
iter = 12124, queue = 18172, heur = -9.0, depth = 9
iter = 12125, queue = 18172, heur = -9.0, depth = 9
iter = 12126, queue = 18175, heur = -9.0, depth = 9
iter = 12127, queue = 18178, heur = -9.0, depth = 9
iter = 12128, queue = 18180, heur = -9.0, depth = 9
iter = 12129, queue = 18183, heur = -9.0, depth = 9
iter = 12130, queue = 18186, heur = -9.0, depth = 9
iter = 12131, queue = 18189, heur = -9.0, depth = 9
iter = 12132, queue = 18191, heur = -9.0, depth = 9
iter = 12133, queue = 18192, heur = -9.0, depth = 10
iter = 12134, queue = 18195, heur = -9.0, depth = 9
iter = 12135, queue = 18195, heur = -9.0, depth = 10
iter = 12136, queue = 18197, heur = -9.0, depth = 10
iter = 12137, queue = 18200, heur = -9.0, depth = 10
iter = 12138, queue = 18203, heur = -9.0, depth = 10
iter = 12139, queue = 18206, heur = -9.0, depth = 9
iter = 12140, queue = 18207, heur = -9.0, depth = 9
iter = 12141, queue = 18208, heur = -9.0, depth = 9
iter = 12142, queue = 18211, heur = -9.0, depth = 10
iter = 12143, queue = 18214, heur = -9.0, depth = 9
iter = 12144, queue = 18217, heur = -9.0, depth = 9
iter = 12145, queue = 18220, heur = -9.0, depth = 9
iter = 12146, queue = 18223, heur = -9.0, depth = 9
iter = 12147, queue = 18224, heur = -9.0, depth = 9
iter = 12148, queue = 18227, heur = -9.0, depth = 9
iter = 12149, queue = 18229, heur = -9.0, depth = 10
iter = 12150, queue = 18232, heur = -9.0, depth = 9
iter = 12151, queue = 18234, heur = -9.0, depth = 9
iter = 12152, queue = 18233, heur = -9.0, depth = 9
```

```
iter = 12153, queue = 18236, heur = -9.0, depth = 9
iter = 12154, queue = 18239, heur = -9.0, depth = 10
iter = 12155, queue = 18240, heur = -9.0, depth = 9
iter = 12156, queue = 18241, heur = -9.0, depth = 9
iter = 12157, queue = 18243, heur = -9.0, depth = 9
iter = 12158, queue = 18246, heur = -9.0, depth = 9
iter = 12159, queue = 18245, heur = -9.0, depth = 9
iter = 12160, queue = 18244, heur = -9.0, depth = 9
iter = 12161, queue = 18247, heur = -9.0, depth = 9
iter = 12162, queue = 18247, heur = -9.0, depth = 9
iter = 12163, queue = 18248, heur = -9.0, depth = 9
iter = 12164, queue = 18249, heur = -9.0, depth = 10
iter = 12165, queue = 18250, heur = -9.0, depth = 10
iter = 12166, queue = 18253, heur = -9.0, depth = 9
iter = 12167, queue = 18256, heur = -9.0, depth = 9
iter = 12168, queue = 18257, heur = -9.0, depth = 9
iter = 12169, queue = 18258, heur = -9.0, depth = 9
iter = 12170, queue = 18261, heur = -9.0, depth = 9
iter = 12171, queue = 18264, heur = -9.0, depth = 11
iter = 12172, queue = 18266, heur = -9.0, depth = 9
iter = 12173, queue = 18267, heur = -9.0, depth = 9
iter = 12174, queue = 18267, heur = -9.0, depth = 11
iter = 12175, queue = 18269, heur = -9.0, depth = 9
iter = 12176, queue = 18270, heur = -9.0, depth = 9
iter = 12177, queue = 18271, heur = -9.0, depth = 9
iter = 12178, queue = 18273, heur = -9.0, depth = 9
iter = 12179, queue = 18274, heur = -9.0, depth = 9
iter = 12180, queue = 18277, heur = -9.0, depth = 9
iter = 12181, queue = 18279, heur = -9.0, depth = 9
iter = 12182, queue = 18279, heur = -9.0, depth = 9
iter = 12183, queue = 18281, heur = -9.0, depth = 10
iter = 12184, queue = 18283, heur = -9.0, depth = 10
iter = 12185, queue = 18285, heur = -9.0, depth = 10
iter = 12186, queue = 18288, heur = -9.0, depth = 10
iter = 12187, queue = 18291, heur = -9.0, depth = 9
iter = 12188, queue = 18292, heur = -9.0, depth = 9
iter = 12189, queue = 18291, heur = -9.0, depth = 10
iter = 12190, queue = 18290, heur = -9.0, depth = 9
iter = 12191, queue = 18292, heur = -9.0, depth = 9
iter = 12192, queue = 18292, heur = -9.0, depth = 10
iter = 12193, queue = 18293, heur = -9.0, depth = 9
iter = 12194, queue = 18294, heur = -9.0, depth = 9
iter = 12195, queue = 18297, heur = -9.0, depth = 9
iter = 12196, queue = 18298, heur = -9.0, depth = 9
iter = 12197, queue = 18299, heur = -9.0, depth = 9
iter = 12198, queue = 18302, heur = -9.0, depth = 9
iter = 12199, queue = 18305, heur = -9.0, depth = 9
iter = 12200, queue = 18307, heur = -9.0, depth = 9
iter = 12201, queue = 18307, heur = -9.0, depth = 9
iter = 12202, queue = 18308, heur = -9.0, depth = 9
iter = 12203, queue = 18309, heur = -9.0, depth = 9
iter = 12204, queue = 18310, heur = -9.0, depth = 9
iter = 12205, queue = 18312, heur = -9.0, depth = 9
iter = 12206, queue = 18313, heur = -9.0, depth = 9
iter = 12207, queue = 18315, heur = -9.0, depth = 9
iter = 12208, queue = 18316, heur = -9.0, depth = 9
iter = 12209, queue = 18318, heur = -9.0, depth = 9
iter = 12210, queue = 18317, heur = -9.0, depth = 9
iter = 12211, queue = 18318, heur = -9.0, depth = 9
```

```
iter = 12212, queue = 18321, heur = -9.0, depth = 9
iter = 12213, queue = 18320, heur = -9.0, depth = 10
iter = 12214, queue = 18322, heur = -9.0, depth = 9
iter = 12215, queue = 18324, heur = -9.0, depth = 9
iter = 12216, queue = 18325, heur = -9.0, depth = 9
iter = 12217, queue = 18324, heur = -9.0, depth = 9
iter = 12218, queue = 18324, heur = -9.0, depth = 9
iter = 12219, queue = 18326, heur = -9.0, depth = 9
iter = 12220, queue = 18329, heur = -9.0, depth = 10
iter = 12221, queue = 18331, heur = -9.0, depth = 9
iter = 12222, queue = 18334, heur = -9.0, depth = 9
iter = 12223, queue = 18336, heur = -9.0, depth = 9
iter = 12224, queue = 18337, heur = -9.0, depth = 9
iter = 12225, queue = 18338, heur = -9.0, depth = 9
iter = 12226, queue = 18339, heur = -9.0, depth = 9
iter = 12227, queue = 18340, heur = -9.0, depth = 9
iter = 12228, queue = 18339, heur = -9.0, depth = 9
iter = 12229, queue = 18340, heur = -9.0, depth = 9
iter = 12230, queue = 18341, heur = -9.0, depth = 9
iter = 12231, queue = 18341, heur = -9.0, depth = 11
iter = 12232, queue = 18343, heur = -9.0, depth = 9
iter = 12233, queue = 18345, heur = -9.0, depth = 9
iter = 12234, queue = 18347, heur = -9.0, depth = 9
iter = 12235, queue = 18350, heur = -9.0, depth = 9
iter = 12236, queue = 18350, heur = -9.0, depth = 9
iter = 12237, queue = 18351, heur = -9.0, depth = 9
iter = 12238, queue = 18352, heur = -9.0, depth = 9
iter = 12239, queue = 18355, heur = -9.0, depth = 9
iter = 12240, queue = 18358, heur = -9.0, depth = 9
iter = 12241, queue = 18360, heur = -9.0, depth = 10
iter = 12242, queue = 18363, heur = -9.0, depth = 9
iter = 12243, queue = 18365, heur = -9.0, depth = 9
iter = 12244, queue = 18366, heur = -9.0, depth = 9
iter = 12245, queue = 18368, heur = -9.0, depth = 9
iter = 12246, queue = 18367, heur = -9.0, depth = 9
iter = 12247, queue = 18368, heur = -9.0, depth = 9
iter = 12248, queue = 18369, heur = -9.0, depth = 9
iter = 12249, queue = 18370, heur = -9.0, depth = 9
iter = 12250, queue = 18371, heur = -9.0, depth = 9
iter = 12251, queue = 18374, heur = -9.0, depth = 9
iter = 12252, queue = 18374, heur = -9.0, depth = 9
iter = 12253, queue = 18374, heur = -9.0, depth = 9
iter = 12254, queue = 18375, heur = -9.0, depth = 9
iter = 12255, queue = 18374, heur = -9.0, depth = 9
iter = 12256, queue = 18374, heur = -9.0, depth = 9
iter = 12257, queue = 18375, heur = -9.0, depth = 9
iter = 12258, queue = 18376, heur = -9.0, depth = 9
iter = 12259, queue = 18378, heur = -9.0, depth = 9
iter = 12260, queue = 18379, heur = -9.0, depth = 10
iter = 12261, queue = 18380, heur = -9.0, depth = 10
iter = 12262, queue = 18381, heur = -9.0, depth = 10
iter = 12263, queue = 18384, heur = -9.0, depth = 10
iter = 12264, queue = 18387, heur = -9.0, depth = 10
iter = 12265, queue = 18388, heur = -9.0, depth = 9
iter = 12266, queue = 18389, heur = -9.0, depth = 9
iter = 12267, queue = 18390, heur = -9.0, depth = 10
iter = 12268, queue = 18393, heur = -9.0, depth = 9
iter = 12269, queue = 18394, heur = -9.0, depth = 9
iter = 12270, queue = 18394, heur = -9.0, depth = 9
```

```
iter = 12271, queue = 18397, heur = -9.0, depth = 9
iter = 12272, queue = 18400, heur = -9.0, depth = 9
iter = 12273, queue = 18401, heur = -9.0, depth = 9
iter = 12274, queue = 18401, heur = -9.0, depth = 9
iter = 12275, queue = 18401, heur = -9.0, depth = 9
iter = 12276, queue = 18402, heur = -9.0, depth = 9
iter = 12277, queue = 18404, heur = -9.0, depth = 10
iter = 12278, queue = 18406, heur = -9.0, depth = 9
iter = 12279, queue = 18407, heur = -9.0, depth = 9
iter = 12280, queue = 18410, heur = -9.0, depth = 9
iter = 12281, queue = 18411, heur = -9.0, depth = 9
iter = 12282, queue = 18411, heur = -9.0, depth = 9
iter = 12283, queue = 18413, heur = -9.0, depth = 9
iter = 12284, queue = 18416, heur = -9.0, depth = 10
iter = 12285, queue = 18417, heur = -9.0, depth = 9
iter = 12286, queue = 18420, heur = -9.0, depth = 10
iter = 12287, queue = 18423, heur = -9.0, depth = 9
iter = 12288, queue = 18426, heur = -9.0, depth = 9
iter = 12289, queue = 18427, heur = -9.0, depth = 9
iter = 12290, queue = 18428, heur = -9.0, depth = 9
iter = 12291, queue = 18431, heur = -9.0, depth = 9
iter = 12292, queue = 18433, heur = -9.0, depth = 9
iter = 12293, queue = 18434, heur = -9.0, depth = 9
iter = 12294, queue = 18435, heur = -9.0, depth = 9
iter = 12295, queue = 18438, heur = -9.0, depth = 9
iter = 12296, queue = 18441, heur = -9.0, depth = 9
iter = 12297, queue = 18441, heur = -9.0, depth = 9
iter = 12298, queue = 18443, heur = -9.0, depth = 9
iter = 12299, queue = 18446, heur = -9.0, depth = 9
iter = 12300, queue = 18447, heur = -9.0, depth = 9
iter = 12301, queue = 18447, heur = -9.0, depth = 9
iter = 12302, queue = 18448, heur = -9.0, depth = 9
iter = 12303, queue = 18449, heur = -9.0, depth = 9
iter = 12304, queue = 18452, heur = -9.0, depth = 9
iter = 12305, queue = 18455, heur = -9.0, depth = 9
iter = 12306, queue = 18457, heur = -9.0, depth = 9
iter = 12307, queue = 18458, heur = -9.0, depth = 9
iter = 12308, queue = 18459, heur = -9.0, depth = 9
iter = 12309, queue = 18460, heur = -9.0, depth = 9
iter = 12310, queue = 18461, heur = -9.0, depth = 9
iter = 12311, queue = 18463, heur = -9.0, depth = 9
iter = 12312, queue = 18466, heur = -9.0, depth = 10
iter = 12313, queue = 18469, heur = -9.0, depth = 9
iter = 12314, queue = 18470, heur = -9.0, depth = 9
iter = 12315, queue = 18471, heur = -9.0, depth = 9
iter = 12316, queue = 18472, heur = -9.0, depth = 10
iter = 12317, queue = 18473, heur = -9.0, depth = 9
iter = 12318, queue = 18474, heur = -9.0, depth = 9
iter = 12319, queue = 18475, heur = -9.0, depth = 10
iter = 12320, queue = 18476, heur = -9.0, depth = 9
iter = 12321, queue = 18479, heur = -9.0, depth = 9
iter = 12322, queue = 18481, heur = -9.0, depth = 9
iter = 12323, queue = 18482, heur = -9.0, depth = 9
iter = 12324, queue = 18484, heur = -9.0, depth = 10
iter = 12325, queue = 18485, heur = -9.0, depth = 9
iter = 12326, queue = 18486, heur = -9.0, depth = 9
iter = 12327, queue = 18487, heur = -9.0, depth = 9
iter = 12328, queue = 18490, heur = -9.0, depth = 9
iter = 12329, queue = 18491, heur = -9.0, depth = 10
```

```
iter = 12330, queue = 18493, heur = -9.0, depth = 9
iter = 12331, queue = 18492, heur = -9.0, depth = 9
iter = 12332, queue = 18495, heur = -9.0, depth = 9
iter = 12333, queue = 18498, heur = -9.0, depth = 9
iter = 12334, queue = 18498, heur = -9.0, depth = 9
iter = 12335, queue = 18500, heur = -9.0, depth = 9
iter = 12336, queue = 18501, heur = -9.0, depth = 10
iter = 12337, queue = 18502, heur = -9.0, depth = 9
iter = 12338, queue = 18505, heur = -9.0, depth = 9
iter = 12339, queue = 18506, heur = -9.0, depth = 9
iter = 12340, queue = 18505, heur = -9.0, depth = 9
iter = 12341, queue = 18506, heur = -9.0, depth = 9
iter = 12342, queue = 18508, heur = -9.0, depth = 9
iter = 12343, queue = 18509, heur = -9.0, depth = 10
iter = 12344, queue = 18511, heur = -9.0, depth = 9
iter = 12345, queue = 18514, heur = -9.0, depth = 9
iter = 12346, queue = 18516, heur = -9.0, depth = 9
iter = 12347, queue = 18517, heur = -9.0, depth = 10
iter = 12348, queue = 18520, heur = -9.0, depth = 9
iter = 12349, queue = 18521, heur = -9.0, depth = 9
iter = 12350, queue = 18524, heur = -9.0, depth = 10
iter = 12351, queue = 18527, heur = -9.0, depth = 9
iter = 12352, queue = 18528, heur = -9.0, depth = 9
iter = 12353, queue = 18529, heur = -9.0, depth = 10
iter = 12354, queue = 18531, heur = -9.0, depth = 9
iter = 12355, queue = 18534, heur = -9.0, depth = 9
iter = 12356, queue = 18537, heur = -9.0, depth = 9
iter = 12357, queue = 18539, heur = -9.0, depth = 9
iter = 12358, queue = 18540, heur = -9.0, depth = 10
iter = 12359, queue = 18543, heur = -9.0, depth = 9
iter = 12360, queue = 18542, heur = -9.0, depth = 9
iter = 12361, queue = 18545, heur = -9.0, depth = 9
iter = 12362, queue = 18546, heur = -9.0, depth = 9
iter = 12363, queue = 18548, heur = -9.0, depth = 9
iter = 12364, queue = 18550, heur = -9.0, depth = 9
iter = 12365, queue = 18553, heur = -9.0, depth = 9
iter = 12366, queue = 18554, heur = -9.0, depth = 9
iter = 12367, queue = 18556, heur = -9.0, depth = 9
iter = 12368, queue = 18559, heur = -9.0, depth = 9
iter = 12369, queue = 18559, heur = -9.0, depth = 10
iter = 12370, queue = 18560, heur = -9.0, depth = 9
iter = 12371, queue = 18562, heur = -9.0, depth = 9
iter = 12372, queue = 18564, heur = -9.0, depth = 9
iter = 12373, queue = 18566, heur = -9.0, depth = 9
iter = 12374, queue = 18567, heur = -9.0, depth = 9
iter = 12375, queue = 18569, heur = -9.0, depth = 9
iter = 12376, queue = 18570, heur = -9.0, depth = 10
iter = 12377, queue = 18572, heur = -9.0, depth = 9
iter = 12378, queue = 18575, heur = -9.0, depth = 9
iter = 12379, queue = 18578, heur = -9.0, depth = 9
iter = 12380, queue = 18579, heur = -9.0, depth = 9
iter = 12381, queue = 18579, heur = -9.0, depth = 9
iter = 12382, queue = 18580, heur = -9.0, depth = 9
iter = 12383, queue = 18582, heur = -9.0, depth = 9
iter = 12384, queue = 18584, heur = -9.0, depth = 9
iter = 12385, queue = 18584, heur = -9.0, depth = 9
iter = 12386, queue = 18585, heur = -9.0, depth = 9
iter = 12387, queue = 18586, heur = -9.0, depth = 9
iter = 12388, queue = 18589, heur = -9.0, depth = 9
```

```
iter = 12389, queue = 18592, heur = -9.0, depth = 9
iter = 12390, queue = 18593, heur = -9.0, depth = 9
iter = 12391, queue = 18594, heur = -9.0, depth = 9
iter = 12392, queue = 18594, heur = -9.0, depth = 9
iter = 12393, queue = 18595, heur = -9.0, depth = 9
iter = 12394, queue = 18598, heur = -9.0, depth = 9
iter = 12395, queue = 18601, heur = -9.0, depth = 9
iter = 12396, queue = 18604, heur = -9.0, depth = 9
iter = 12397, queue = 18606, heur = -9.0, depth = 9
iter = 12398, queue = 18609, heur = -9.0, depth = 9
iter = 12399, queue = 18610, heur = -9.0, depth = 9
iter = 12400, queue = 18611, heur = -9.0, depth = 9
iter = 12401, queue = 18611, heur = -9.0, depth = 10
iter = 12402, queue = 18614, heur = -9.0, depth = 9
iter = 12403, queue = 18614, heur = -9.0, depth = 9
iter = 12404, queue = 18616, heur = -9.0, depth = 9
iter = 12405, queue = 18617, heur = -9.0, depth = 9
iter = 12406, queue = 18619, heur = -9.0, depth = 9
iter = 12407, queue = 18622, heur = -9.0, depth = 9
iter = 12408, queue = 18623, heur = -9.0, depth = 9
iter = 12409, queue = 18626, heur = -9.0, depth = 9
iter = 12410, queue = 18626, heur = -9.0, depth = 9
iter = 12411, queue = 18629, heur = -9.0, depth = 9
iter = 12412, queue = 18632, heur = -9.0, depth = 9
iter = 12413, queue = 18631, heur = -9.0, depth = 9
iter = 12414, queue = 18634, heur = -9.0, depth = 10
iter = 12415, queue = 18635, heur = -9.0, depth = 9
iter = 12416, queue = 18636, heur = -9.0, depth = 10
iter = 12417, queue = 18635, heur = -9.0, depth = 10
iter = 12418, queue = 18638, heur = -9.0, depth = 9
iter = 12419, queue = 18639, heur = -9.0, depth = 9
iter = 12420, queue = 18642, heur = -9.0, depth = 9
iter = 12421, queue = 18643, heur = -9.0, depth = 9
iter = 12422, queue = 18644, heur = -9.0, depth = 9
iter = 12423, queue = 18645, heur = -9.0, depth = 9
iter = 12424, queue = 18646, heur = -9.0, depth = 9
iter = 12425, queue = 18649, heur = -9.0, depth = 9
iter = 12426, queue = 18652, heur = -9.0, depth = 9
iter = 12427, queue = 18653, heur = -9.0, depth = 9
iter = 12428, queue = 18652, heur = -9.0, depth = 9
iter = 12429, queue = 18654, heur = -9.0, depth = 10
iter = 12430, queue = 18655, heur = -9.0, depth = 9
iter = 12431, queue = 18656, heur = -9.0, depth = 10
iter = 12432, queue = 18659, heur = -9.0, depth = 9
iter = 12433, queue = 18660, heur = -9.0, depth = 9
iter = 12434, queue = 18661, heur = -9.0, depth = 9
iter = 12435, queue = 18663, heur = -9.0, depth = 9
iter = 12436, queue = 18666, heur = -9.0, depth = 9
iter = 12437, queue = 18667, heur = -9.0, depth = 9
iter = 12438, queue = 18670, heur = -9.0, depth = 9
iter = 12439, queue = 18672, heur = -9.0, depth = 9
iter = 12440, queue = 18673, heur = -9.0, depth = 9
iter = 12441, queue = 18674, heur = -9.0, depth = 9
iter = 12442, queue = 18677, heur = -9.0, depth = 10
iter = 12443, queue = 18680, heur = -9.0, depth = 9
iter = 12444, queue = 18681, heur = -9.0, depth = 9
iter = 12445, queue = 18680, heur = -9.0, depth = 9
iter = 12446, queue = 18680, heur = -9.0, depth = 9
iter = 12447, queue = 18681, heur = -9.0, depth = 9
```

```
iter = 12448, queue = 18683, heur = -9.0, depth = 9
iter = 12449, queue = 18684, heur = -9.0, depth = 9
iter = 12450, queue = 18687, heur = -9.0, depth = 9
iter = 12451, queue = 18687, heur = -9.0, depth = 9
iter = 12452, queue = 18687, heur = -9.0, depth = 9
iter = 12453, queue = 18690, heur = -9.0, depth = 9
iter = 12454, queue = 18692, heur = -9.0, depth = 9
iter = 12455, queue = 18693, heur = -9.0, depth = 9
iter = 12456, queue = 18692, heur = -9.0, depth = 9
iter = 12457, queue = 18695, heur = -9.0, depth = 9
iter = 12458, queue = 18696, heur = -9.0, depth = 9
iter = 12459, queue = 18698, heur = -9.0, depth = 9
iter = 12460, queue = 18699, heur = -9.0, depth = 9
iter = 12461, queue = 18702, heur = -9.0, depth = 9
iter = 12462, queue = 18701, heur = -9.0, depth = 9
iter = 12463, queue = 18704, heur = -9.0, depth = 10
iter = 12464, queue = 18707, heur = -9.0, depth = 9
iter = 12465, queue = 18708, heur = -9.0, depth = 9
iter = 12466, queue = 18709, heur = -9.0, depth = 9
iter = 12467, queue = 18711, heur = -9.0, depth = 9
iter = 12468, queue = 18714, heur = -9.0, depth = 9
iter = 12469, queue = 18717, heur = -9.0, depth = 9
iter = 12470, queue = 18720, heur = -9.0, depth = 9
iter = 12471, queue = 18721, heur = -9.0, depth = 9
iter = 12472, queue = 18724, heur = -9.0, depth = 9
iter = 12473, queue = 18727, heur = -9.0, depth = 9
iter = 12474, queue = 18730, heur = -9.0, depth = 9
iter = 12475, queue = 18731, heur = -9.0, depth = 9
iter = 12476, queue = 18734, heur = -9.0, depth = 9
iter = 12477, queue = 18735, heur = -9.0, depth = 9
iter = 12478, queue = 18736, heur = -9.0, depth = 9
iter = 12479, queue = 18737, heur = -9.0, depth = 9
iter = 12480, queue = 18738, heur = -9.0, depth = 9
iter = 12481, queue = 18738, heur = -9.0, depth = 9
iter = 12482, queue = 18739, heur = -9.0, depth = 9
iter = 12483, queue = 18742, heur = -9.0, depth = 9
iter = 12484, queue = 18742, heur = -9.0, depth = 10
iter = 12485, queue = 18743, heur = -9.0, depth = 9
iter = 12486, queue = 18746, heur = -9.0, depth = 9
iter = 12487, queue = 18749, heur = -9.0, depth = 9
iter = 12488, queue = 18750, heur = -9.0, depth = 9
iter = 12489, queue = 18753, heur = -9.0, depth = 9
iter = 12490, queue = 18754, heur = -9.0, depth = 9
iter = 12491, queue = 18754, heur = -9.0, depth = 9
iter = 12492, queue = 18755, heur = -9.0, depth = 9
iter = 12493, queue = 18758, heur = -9.0, depth = 9
iter = 12494, queue = 18761, heur = -9.0, depth = 9
iter = 12495, queue = 18762, heur = -9.0, depth = 9
iter = 12496, queue = 18765, heur = -9.0, depth = 9
iter = 12497, queue = 18768, heur = -9.0, depth = 9
iter = 12498, queue = 18771, heur = -9.0, depth = 9
iter = 12499, queue = 18774, heur = -9.0, depth = 9
iter = 12500, queue = 18775, heur = -9.0, depth = 9
iter = 12501, queue = 18775, heur = -9.0, depth = 9
iter = 12502, queue = 18776, heur = -9.0, depth = 9
iter = 12503, queue = 18777, heur = -9.0, depth = 9
iter = 12504, queue = 18779, heur = -9.0, depth = 9
iter = 12505, queue = 18780, heur = -9.0, depth = 9
iter = 12506, queue = 18783, heur = -9.0, depth = 9
```

```
iter = 12507, queue = 18786, heur = -9.0, depth = 9
iter = 12508, queue = 18789, heur = -9.0, depth = 9
iter = 12509, queue = 18792, heur = -9.0, depth = 9
iter = 12510, queue = 18795, heur = -9.0, depth = 9
iter = 12511, queue = 18796, heur = -9.0, depth = 9
iter = 12512, queue = 18799, heur = -9.0, depth = 9
iter = 12513, queue = 18801, heur = -9.0, depth = 9
iter = 12514, queue = 18803, heur = -9.0, depth = 9
iter = 12515, queue = 18805, heur = -9.0, depth = 9
iter = 12516, queue = 18806, heur = -9.0, depth = 9
iter = 12517, queue = 18809, heur = -9.0, depth = 9
iter = 12518, queue = 18812, heur = -9.0, depth = 9
iter = 12519, queue = 18813, heur = -9.0, depth = 9
iter = 12520, queue = 18814, heur = -9.0, depth = 11
iter = 12521, queue = 18815, heur = -9.0, depth = 11
iter = 12522, queue = 18817, heur = -9.0, depth = 9
iter = 12523, queue = 18818, heur = -9.0, depth = 9
iter = 12524, queue = 18821, heur = -9.0, depth = 9
iter = 12525, queue = 18824, heur = -9.0, depth = 9
iter = 12526, queue = 18826, heur = -9.0, depth = 9
iter = 12527, queue = 18827, heur = -9.0, depth = 9
iter = 12528, queue = 18828, heur = -9.0, depth = 10
iter = 12529, queue = 18831, heur = -9.0, depth = 9
iter = 12530, queue = 18834, heur = -9.0, depth = 9
iter = 12531, queue = 18836, heur = -9.0, depth = 9
iter = 12532, queue = 18838, heur = -9.0, depth = 9
iter = 12533, queue = 18839, heur = -9.0, depth = 9
iter = 12534, queue = 18838, heur = -9.0, depth = 9
iter = 12535, queue = 18841, heur = -9.0, depth = 9
iter = 12536, queue = 18843, heur = -9.0, depth = 9
iter = 12537, queue = 18846, heur = -9.0, depth = 9
iter = 12538, queue = 18846, heur = -9.0, depth = 9
iter = 12539, queue = 18849, heur = -9.0, depth = 9
iter = 12540, queue = 18850, heur = -9.0, depth = 9
iter = 12541, queue = 18853, heur = -9.0, depth = 9
iter = 12542, queue = 18856, heur = -9.0, depth = 9
iter = 12543, queue = 18859, heur = -9.0, depth = 9
iter = 12544, queue = 18860, heur = -9.0, depth = 9
iter = 12545, queue = 18862, heur = -9.0, depth = 9
iter = 12546, queue = 18861, heur = -9.0, depth = 10
iter = 12547, queue = 18864, heur = -9.0, depth = 10
iter = 12548, queue = 18865, heur = -9.0, depth = 9
iter = 12549, queue = 18865, heur = -9.0, depth = 10
iter = 12550, queue = 18866, heur = -9.0, depth = 10
iter = 12551, queue = 18867, heur = -9.0, depth = 9
iter = 12552, queue = 18869, heur = -9.0, depth = 9
iter = 12553, queue = 18870, heur = -9.0, depth = 9
iter = 12554, queue = 18873, heur = -9.0, depth = 9
iter = 12555, queue = 18875, heur = -9.0, depth = 10
iter = 12556, queue = 18876, heur = -9.0, depth = 10
iter = 12557, queue = 18877, heur = -9.0, depth = 10
iter = 12558, queue = 18880, heur = -9.0, depth = 9
iter = 12559, queue = 18879, heur = -9.0, depth = 9
iter = 12560, queue = 18878, heur = -9.0, depth = 9
iter = 12561, queue = 18879, heur = -9.0, depth = 10
iter = 12562, queue = 18882, heur = -9.0, depth = 10
iter = 12563, queue = 18885, heur = -9.0, depth = 10
iter = 12564, queue = 18886, heur = -9.0, depth = 10
iter = 12565, queue = 18885, heur = -9.0, depth = 9
```

```
iter = 12566, queue = 18885, heur = -9.0, depth = 10
iter = 12567, queue = 18888, heur = -9.0, depth = 9
iter = 12568, queue = 18887, heur = -9.0, depth = 10
iter = 12569, queue = 18888, heur = -9.0, depth = 10
iter = 12570, queue = 18889, heur = -9.0, depth = 10
iter = 12571, queue = 18890, heur = -9.0, depth = 9
iter = 12572, queue = 18893, heur = -9.0, depth = 9
iter = 12573, queue = 18896, heur = -9.0, depth = 9
iter = 12574, queue = 18899, heur = -9.0, depth = 10
iter = 12575, queue = 18899, heur = -9.0, depth = 9
iter = 12576, queue = 18900, heur = -9.0, depth = 9
iter = 12577, queue = 18903, heur = -9.0, depth = 9
iter = 12578, queue = 18904, heur = -9.0, depth = 9
iter = 12579, queue = 18905, heur = -9.0, depth = 9
iter = 12580, queue = 18908, heur = -9.0, depth = 9
iter = 12581, queue = 18910, heur = -9.0, depth = 9
iter = 12582, queue = 18913, heur = -9.0, depth = 10
iter = 12583, queue = 18913, heur = -9.0, depth = 9
iter = 12584, queue = 18915, heur = -9.0, depth = 9
iter = 12585, queue = 18916, heur = -9.0, depth = 9
iter = 12586, queue = 18916, heur = -9.0, depth = 9
iter = 12587, queue = 18917, heur = -9.0, depth = 9
iter = 12588, queue = 18918, heur = -9.0, depth = 9
iter = 12589, queue = 18919, heur = -9.0, depth = 9
iter = 12590, queue = 18922, heur = -9.0, depth = 9
iter = 12591, queue = 18925, heur = -9.0, depth = 9
iter = 12592, queue = 18928, heur = -9.0, depth = 9
iter = 12593, queue = 18930, heur = -9.0, depth = 9
iter = 12594, queue = 18933, heur = -9.0, depth = 9
iter = 12595, queue = 18934, heur = -9.0, depth = 9
iter = 12596, queue = 18934, heur = -9.0, depth = 9
iter = 12597, queue = 18936, heur = -9.0, depth = 9
iter = 12598, queue = 18935, heur = -9.0, depth = 9
iter = 12599, queue = 18936, heur = -9.0, depth = 9
iter = 12600, queue = 18937, heur = -9.0, depth = 9
iter = 12601, queue = 18940, heur = -9.0, depth = 9
iter = 12602, queue = 18942, heur = -9.0, depth = 9
iter = 12603, queue = 18943, heur = -9.0, depth = 9
iter = 12604, queue = 18946, heur = -9.0, depth = 9
iter = 12605, queue = 18947, heur = -9.0, depth = 9
iter = 12606, queue = 18948, heur = -9.0, depth = 9
iter = 12607, queue = 18949, heur = -9.0, depth = 10
iter = 12608, queue = 18952, heur = -9.0, depth = 9
iter = 12609, queue = 18952, heur = -9.0, depth = 9
iter = 12610, queue = 18953, heur = -9.0, depth = 9
iter = 12611, queue = 18954, heur = -9.0, depth = 10
iter = 12612, queue = 18955, heur = -9.0, depth = 9
iter = 12613, queue = 18956, heur = -9.0, depth = 9
iter = 12614, queue = 18957, heur = -9.0, depth = 9
iter = 12615, queue = 18958, heur = -9.0, depth = 10
iter = 12616, queue = 18958, heur = -9.0, depth = 9
iter = 12617, queue = 18960, heur = -9.0, depth = 9
iter = 12618, queue = 18962, heur = -9.0, depth = 9
iter = 12619, queue = 18963, heur = -9.0, depth = 9
iter = 12620, queue = 18964, heur = -9.0, depth = 9
iter = 12621, queue = 18965, heur = -9.0, depth = 9
iter = 12622, queue = 18967, heur = -9.0, depth = 9
iter = 12623, queue = 18968, heur = -9.0, depth = 9
iter = 12624, queue = 18969, heur = -9.0, depth = 9
```

```
iter = 12625, queue = 18972, heur = -9.0, depth = 9
iter = 12626, queue = 18975, heur = -9.0, depth = 9
iter = 12627, queue = 18977, heur = -9.0, depth = 9
iter = 12628, queue = 18979, heur = -9.0, depth = 9
iter = 12629, queue = 18979, heur = -9.0, depth = 9
iter = 12630, queue = 18980, heur = -9.0, depth = 9
iter = 12631, queue = 18979, heur = -9.0, depth = 10
iter = 12632, queue = 18982, heur = -9.0, depth = 9
iter = 12633, queue = 18983, heur = -9.0, depth = 9
iter = 12634, queue = 18986, heur = -9.0, depth = 10
iter = 12635, queue = 18986, heur = -9.0, depth = 9
iter = 12636, queue = 18989, heur = -9.0, depth = 9
iter = 12637, queue = 18991, heur = -9.0, depth = 9
iter = 12638, queue = 18992, heur = -9.0, depth = 9
iter = 12639, queue = 18991, heur = -9.0, depth = 10
iter = 12640, queue = 18992, heur = -9.0, depth = 9
iter = 12641, queue = 18991, heur = -9.0, depth = 9
iter = 12642, queue = 18992, heur = -9.0, depth = 9
iter = 12643, queue = 18993, heur = -9.0, depth = 9
iter = 12644, queue = 18993, heur = -9.0, depth = 9
iter = 12645, queue = 18994, heur = -9.0, depth = 9
iter = 12646, queue = 18995, heur = -9.0, depth = 9
iter = 12647, queue = 18995, heur = -9.0, depth = 9
iter = 12648, queue = 18996, heur = -9.0, depth = 9
iter = 12649, queue = 18996, heur = -9.0, depth = 10
iter = 12650, queue = 18996, heur = -9.0, depth = 9
iter = 12651, queue = 18997, heur = -9.0, depth = 10
iter = 12652, queue = 19000, heur = -9.0, depth = 9
iter = 12653, queue = 19002, heur = -9.0, depth = 9
iter = 12654, queue = 19003, heur = -9.0, depth = 10
iter = 12655, queue = 19004, heur = -9.0, depth = 9
iter = 12656, queue = 19007, heur = -9.0, depth = 9
iter = 12657, queue = 19008, heur = -9.0, depth = 9
iter = 12658, queue = 19007, heur = -9.0, depth = 10
iter = 12659, queue = 19007, heur = -9.0, depth = 10
iter = 12660, queue = 19008, heur = -9.0, depth = 10
iter = 12661, queue = 19009, heur = -9.0, depth = 10
iter = 12662, queue = 19010, heur = -9.0, depth = 10
iter = 12663, queue = 19011, heur = -9.0, depth = 9
iter = 12664, queue = 19012, heur = -9.0, depth = 10
iter = 12665, queue = 19014, heur = -9.0, depth = 9
iter = 12666, queue = 19017, heur = -9.0, depth = 10
iter = 12667, queue = 19020, heur = -9.0, depth = 9
iter = 12668, queue = 19023, heur = -9.0, depth = 9
iter = 12669, queue = 19024, heur = -9.0, depth = 9
iter = 12670, queue = 19025, heur = -9.0, depth = 9
iter = 12671, queue = 19026, heur = -9.0, depth = 10
iter = 12672, queue = 19028, heur = -9.0, depth = 9
iter = 12673, queue = 19030, heur = -9.0, depth = 9
iter = 12674, queue = 19031, heur = -9.0, depth = 9
iter = 12675, queue = 19032, heur = -9.0, depth = 9
iter = 12676, queue = 19035, heur = -9.0, depth = 9
iter = 12677, queue = 19037, heur = -9.0, depth = 9
iter = 12678, queue = 19038, heur = -9.0, depth = 9
iter = 12679, queue = 19039, heur = -9.0, depth = 9
iter = 12680, queue = 19039, heur = -9.0, depth = 10
iter = 12681, queue = 19042, heur = -9.0, depth = 9
iter = 12682, queue = 19043, heur = -9.0, depth = 10
iter = 12683, queue = 19046, heur = -9.0, depth = 10
```

```
iter = 12684, queue = 19049, heur = -9.0, depth = 9
iter = 12685, queue = 19048, heur = -9.0, depth = 9
iter = 12686, queue = 19049, heur = -9.0, depth = 9
iter = 12687, queue = 19050, heur = -9.0, depth = 9
iter = 12688, queue = 19051, heur = -9.0, depth = 9
iter = 12689, queue = 19052, heur = -9.0, depth = 9
iter = 12690, queue = 19054, heur = -9.0, depth = 9
iter = 12691, queue = 19056, heur = -9.0, depth = 9
iter = 12692, queue = 19057, heur = -9.0, depth = 9
iter = 12693, queue = 19058, heur = -9.0, depth = 9
iter = 12694, queue = 19058, heur = -9.0, depth = 9
iter = 12695, queue = 19059, heur = -9.0, depth = 9
iter = 12696, queue = 19059, heur = -9.0, depth = 9
iter = 12697, queue = 19061, heur = -9.0, depth = 9
iter = 12698, queue = 19063, heur = -9.0, depth = 9
iter = 12699, queue = 19064, heur = -9.0, depth = 9
iter = 12700, queue = 19066, heur = -9.0, depth = 9
iter = 12701, queue = 19067, heur = -9.0, depth = 9
iter = 12702, queue = 19067, heur = -9.0, depth = 9
iter = 12703, queue = 19070, heur = -9.0, depth = 10
iter = 12704, queue = 19072, heur = -9.0, depth = 9
iter = 12705, queue = 19073, heur = -9.0, depth = 9
iter = 12706, queue = 19074, heur = -9.0, depth = 9
iter = 12707, queue = 19075, heur = -9.0, depth = 9
iter = 12708, queue = 19078, heur = -9.0, depth = 9
iter = 12709, queue = 19079, heur = -9.0, depth = 9
iter = 12710, queue = 19081, heur = -9.0, depth = 9
iter = 12711, queue = 19084, heur = -9.0, depth = 9
iter = 12712, queue = 19085, heur = -9.0, depth = 9
iter = 12713, queue = 19087, heur = -9.0, depth = 9
iter = 12714, queue = 19089, heur = -9.0, depth = 9
iter = 12715, queue = 19091, heur = -9.0, depth = 9
iter = 12716, queue = 19092, heur = -9.0, depth = 9
iter = 12717, queue = 19094, heur = -9.0, depth = 10
iter = 12718, queue = 19094, heur = -9.0, depth = 10
iter = 12719, queue = 19095, heur = -9.0, depth = 9
iter = 12720, queue = 19096, heur = -9.0, depth = 9
iter = 12721, queue = 19096, heur = -9.0, depth = 9
iter = 12722, queue = 19097, heur = -9.0, depth = 9
iter = 12723, queue = 19100, heur = -9.0, depth = 9
iter = 12724, queue = 19103, heur = -9.0, depth = 9
iter = 12725, queue = 19105, heur = -9.0, depth = 9
iter = 12726, queue = 19104, heur = -9.0, depth = 9
iter = 12727, queue = 19107, heur = -9.0, depth = 9
iter = 12728, queue = 19106, heur = -9.0, depth = 9
iter = 12729, queue = 19109, heur = -9.0, depth = 9
iter = 12730, queue = 19111, heur = -9.0, depth = 9
iter = 12731, queue = 19112, heur = -9.0, depth = 9
iter = 12732, queue = 19112, heur = -9.0, depth = 9
iter = 12733, queue = 19115, heur = -9.0, depth = 10
iter = 12734, queue = 19116, heur = -9.0, depth = 9
iter = 12735, queue = 19117, heur = -9.0, depth = 9
iter = 12736, queue = 19120, heur = -9.0, depth = 9
iter = 12737, queue = 19121, heur = -9.0, depth = 9
iter = 12738, queue = 19123, heur = -9.0, depth = 9
iter = 12739, queue = 19124, heur = -9.0, depth = 9
iter = 12740, queue = 19126, heur = -9.0, depth = 9
iter = 12741, queue = 19129, heur = -9.0, depth = 9
iter = 12742, queue = 19130, heur = -9.0, depth = 9
```

```
iter = 12743, queue = 19129, heur = -9.0, depth = 9
iter = 12744, queue = 19130, heur = -9.0, depth = 9
iter = 12745, queue = 19129, heur = -9.0, depth = 9
iter = 12746, queue = 19132, heur = -9.0, depth = 9
iter = 12747, queue = 19135, heur = -9.0, depth = 10
iter = 12748, queue = 19136, heur = -9.0, depth = 9
iter = 12749, queue = 19137, heur = -9.0, depth = 9
iter = 12750, queue = 19138, heur = -9.0, depth = 9
iter = 12751, queue = 19139, heur = -9.0, depth = 9
iter = 12752, queue = 19140, heur = -9.0, depth = 9
iter = 12753, queue = 19143, heur = -9.0, depth = 9
iter = 12754, queue = 19146, heur = -9.0, depth = 9
iter = 12755, queue = 19147, heur = -9.0, depth = 9
iter = 12756, queue = 19150, heur = -9.0, depth = 9
iter = 12757, queue = 19153, heur = -9.0, depth = 9
iter = 12758, queue = 19154, heur = -9.0, depth = 9
iter = 12759, queue = 19155, heur = -9.0, depth = 9
iter = 12760, queue = 19158, heur = -9.0, depth = 9
iter = 12761, queue = 19159, heur = -9.0, depth = 9
iter = 12762, queue = 19160, heur = -9.0, depth = 9
iter = 12763, queue = 19161, heur = -9.0, depth = 9
iter = 12764, queue = 19163, heur = -9.0, depth = 9
iter = 12765, queue = 19163, heur = -9.0, depth = 9
iter = 12766, queue = 19164, heur = -9.0, depth = 9
iter = 12767, queue = 19165, heur = -9.0, depth = 9
iter = 12768, queue = 19168, heur = -9.0, depth = 9
iter = 12769, queue = 19170, heur = -9.0, depth = 9
iter = 12770, queue = 19173, heur = -9.0, depth = 9
iter = 12771, queue = 19175, heur = -9.0, depth = 11
iter = 12772, queue = 19176, heur = -9.0, depth = 9
iter = 12773, queue = 19177, heur = -9.0, depth = 9
iter = 12774, queue = 19180, heur = -9.0, depth = 9
iter = 12775, queue = 19181, heur = -9.0, depth = 9
iter = 12776, queue = 19182, heur = -9.0, depth = 9
iter = 12777, queue = 19183, heur = -9.0, depth = 9
iter = 12778, queue = 19184, heur = -9.0, depth = 9
iter = 12779, queue = 19186, heur = -9.0, depth = 9
iter = 12780, queue = 19189, heur = -9.0, depth = 9
iter = 12781, queue = 19189, heur = -9.0, depth = 9
iter = 12782, queue = 19189, heur = -9.0, depth = 9
iter = 12783, queue = 19190, heur = -9.0, depth = 9
iter = 12784, queue = 19191, heur = -9.0, depth = 9
iter = 12785, queue = 19194, heur = -9.0, depth = 9
iter = 12786, queue = 19196, heur = -9.0, depth = 9
iter = 12787, queue = 19199, heur = -9.0, depth = 9
iter = 12788, queue = 19200, heur = -9.0, depth = 9
iter = 12789, queue = 19201, heur = -9.0, depth = 9
iter = 12790, queue = 19201, heur = -9.0, depth = 9
iter = 12791, queue = 19204, heur = -9.0, depth = 9
iter = 12792, queue = 19205, heur = -9.0, depth = 9
iter = 12793, queue = 19206, heur = -9.0, depth = 9
iter = 12794, queue = 19209, heur = -9.0, depth = 9
iter = 12795, queue = 19212, heur = -9.0, depth = 9
iter = 12796, queue = 19215, heur = -9.0, depth = 9
iter = 12797, queue = 19216, heur = -9.0, depth = 9
iter = 12798, queue = 19217, heur = -9.0, depth = 9
iter = 12799, queue = 19220, heur = -9.0, depth = 9
iter = 12800, queue = 19221, heur = -9.0, depth = 9
iter = 12801, queue = 19224, heur = -9.0, depth = 9
```

```
iter = 12802, queue = 19225, heur = -9.0, depth = 9
iter = 12803, queue = 19226, heur = -9.0, depth = 9
iter = 12804, queue = 19229, heur = -9.0, depth = 9
iter = 12805, queue = 19231, heur = -9.0, depth = 9
iter = 12806, queue = 19232, heur = -9.0, depth = 9
iter = 12807, queue = 19233, heur = -9.0, depth = 9
iter = 12808, queue = 19236, heur = -9.0, depth = 9
iter = 12809, queue = 19237, heur = -9.0, depth = 9
iter = 12810, queue = 19238, heur = -9.0, depth = 10
iter = 12811, queue = 19240, heur = -9.0, depth = 10
iter = 12812, queue = 19243, heur = -9.0, depth = 10
iter = 12813, queue = 19243, heur = -9.0, depth = 9
iter = 12814, queue = 19245, heur = -9.0, depth = 9
iter = 12815, queue = 19246, heur = -9.0, depth = 9
iter = 12816, queue = 19247, heur = -9.0, depth = 9
iter = 12817, queue = 19250, heur = -9.0, depth = 9
iter = 12818, queue = 19253, heur = -9.0, depth = 9
iter = 12819, queue = 19255, heur = -9.0, depth = 10
iter = 12820, queue = 19256, heur = -9.0, depth = 10
iter = 12821, queue = 19258, heur = -9.0, depth = 9
iter = 12822, queue = 19260, heur = -9.0, depth = 9
iter = 12823, queue = 19262, heur = -9.0, depth = 10
iter = 12824, queue = 19265, heur = -9.0, depth = 9
iter = 12825, queue = 19264, heur = -9.0, depth = 10
iter = 12826, queue = 19267, heur = -9.0, depth = 9
iter = 12827, queue = 19269, heur = -9.0, depth = 10
iter = 12828, queue = 19271, heur = -9.0, depth = 10
iter = 12829, queue = 19274, heur = -9.0, depth = 10
iter = 12830, queue = 19275, heur = -9.0, depth = 10
iter = 12831, queue = 19276, heur = -9.0, depth = 9
iter = 12832, queue = 19277, heur = -9.0, depth = 9
iter = 12833, queue = 19279, heur = -9.0, depth = 9
iter = 12834, queue = 19280, heur = -9.0, depth = 9
iter = 12835, queue = 19281, heur = -9.0, depth = 9
iter = 12836, queue = 19283, heur = -9.0, depth = 9
iter = 12837, queue = 19284, heur = -9.0, depth = 9
iter = 12838, queue = 19283, heur = -9.0, depth = 9
iter = 12839, queue = 19285, heur = -9.0, depth = 9
iter = 12840, queue = 19287, heur = -9.0, depth = 9
iter = 12841, queue = 19290, heur = -9.0, depth = 9
iter = 12842, queue = 19289, heur = -9.0, depth = 10
iter = 12843, queue = 19292, heur = -9.0, depth = 9
iter = 12844, queue = 19292, heur = -9.0, depth = 9
iter = 12845, queue = 19293, heur = -9.0, depth = 9
iter = 12846, queue = 19296, heur = -9.0, depth = 9
iter = 12847, queue = 19298, heur = -9.0, depth = 9
iter = 12848, queue = 19300, heur = -9.0, depth = 9
iter = 12849, queue = 19302, heur = -9.0, depth = 9
iter = 12850, queue = 19303, heur = -9.0, depth = 10
iter = 12851, queue = 19303, heur = -9.0, depth = 9
iter = 12852, queue = 19305, heur = -9.0, depth = 9
iter = 12853, queue = 19308, heur = -9.0, depth = 10
iter = 12854, queue = 19310, heur = -9.0, depth = 9
iter = 12855, queue = 19312, heur = -9.0, depth = 9
iter = 12856, queue = 19315, heur = -9.0, depth = 9
iter = 12857, queue = 19317, heur = -9.0, depth = 9
iter = 12858, queue = 19318, heur = -9.0, depth = 9
iter = 12859, queue = 19321, heur = -9.0, depth = 10
iter = 12860, queue = 19322, heur = -9.0, depth = 9
```

```
iter = 12861, queue = 19325, heur = -9.0, depth = 9
iter = 12862, queue = 19328, heur = -9.0, depth = 9
iter = 12863, queue = 19331, heur = -9.0, depth = 9
iter = 12864, queue = 19331, heur = -9.0, depth = 9
iter = 12865, queue = 19332, heur = -9.0, depth = 9
iter = 12866, queue = 19333, heur = -9.0, depth = 9
iter = 12867, queue = 19334, heur = -9.0, depth = 9
iter = 12868, queue = 19337, heur = -9.0, depth = 9
iter = 12869, queue = 19339, heur = -9.0, depth = 9
iter = 12870, queue = 19340, heur = -9.0, depth = 9
iter = 12871, queue = 19343, heur = -9.0, depth = 9
iter = 12872, queue = 19344, heur = -9.0, depth = 9
iter = 12873, queue = 19346, heur = -9.0, depth = 9
iter = 12874, queue = 19345, heur = -9.0, depth = 9
iter = 12875, queue = 19347, heur = -9.0, depth = 9
iter = 12876, queue = 19348, heur = -9.0, depth = 9
iter = 12877, queue = 19350, heur = -9.0, depth = 9
iter = 12878, queue = 19351, heur = -9.0, depth = 9
iter = 12879, queue = 19354, heur = -9.0, depth = 9
iter = 12880, queue = 19357, heur = -9.0, depth = 9
iter = 12881, queue = 19359, heur = -9.0, depth = 9
iter = 12882, queue = 19360, heur = -9.0, depth = 10
iter = 12883, queue = 19360, heur = -9.0, depth = 9
iter = 12884, queue = 19361, heur = -9.0, depth = 9
iter = 12885, queue = 19362, heur = -9.0, depth = 9
iter = 12886, queue = 19363, heur = -9.0, depth = 10
iter = 12887, queue = 19363, heur = -9.0, depth = 10
iter = 12888, queue = 19366, heur = -9.0, depth = 9
iter = 12889, queue = 19367, heur = -9.0, depth = 9
iter = 12890, queue = 19368, heur = -9.0, depth = 9
iter = 12891, queue = 19369, heur = -9.0, depth = 10
iter = 12892, queue = 19372, heur = -9.0, depth = 10
iter = 12893, queue = 19375, heur = -9.0, depth = 9
iter = 12894, queue = 19376, heur = -9.0, depth = 10
iter = 12895, queue = 19379, heur = -9.0, depth = 10
iter = 12896, queue = 19380, heur = -9.0, depth = 9
iter = 12897, queue = 19381, heur = -9.0, depth = 9
iter = 12898, queue = 19380, heur = -9.0, depth = 10
iter = 12899, queue = 19383, heur = -9.0, depth = 9
iter = 12900, queue = 19384, heur = -9.0, depth = 9
iter = 12901, queue = 19384, heur = -9.0, depth = 9
iter = 12902, queue = 19386, heur = -9.0, depth = 9
iter = 12903, queue = 19389, heur = -9.0, depth = 9
iter = 12904, queue = 19390, heur = -9.0, depth = 9
iter = 12905, queue = 19391, heur = -9.0, depth = 10
iter = 12906, queue = 19394, heur = -9.0, depth = 9
iter = 12907, queue = 19394, heur = -9.0, depth = 9
iter = 12908, queue = 19397, heur = -9.0, depth = 9
iter = 12909, queue = 19396, heur = -9.0, depth = 9
iter = 12910, queue = 19397, heur = -9.0, depth = 9
iter = 12911, queue = 19400, heur = -9.0, depth = 9
iter = 12912, queue = 19399, heur = -9.0, depth = 9
iter = 12913, queue = 19402, heur = -9.0, depth = 9
iter = 12914, queue = 19403, heur = -9.0, depth = 10
iter = 12915, queue = 19406, heur = -9.0, depth = 9
iter = 12916, queue = 19407, heur = -9.0, depth = 9
iter = 12917, queue = 19408, heur = -9.0, depth = 9
iter = 12918, queue = 19411, heur = -9.0, depth = 10
iter = 12919, queue = 19414, heur = -9.0, depth = 9
```

```
iter = 12920, queue = 19415, heur = -9.0, depth = 10
iter = 12921, queue = 19416, heur = -9.0, depth = 10
iter = 12922, queue = 19419, heur = -9.0, depth = 10
iter = 12923, queue = 19421, heur = -9.0, depth = 10
iter = 12924, queue = 19420, heur = -9.0, depth = 9
iter = 12925, queue = 19421, heur = -9.0, depth = 9
iter = 12926, queue = 19423, heur = -9.0, depth = 9
iter = 12927, queue = 19424, heur = -9.0, depth = 9
iter = 12928, queue = 19424, heur = -9.0, depth = 9
iter = 12929, queue = 19424, heur = -9.0, depth = 9
iter = 12930, queue = 19426, heur = -9.0, depth = 9
iter = 12931, queue = 19428, heur = -9.0, depth = 10
iter = 12932, queue = 19429, heur = -9.0, depth = 9
iter = 12933, queue = 19430, heur = -9.0, depth = 9
iter = 12934, queue = 19430, heur = -9.0, depth = 9
iter = 12935, queue = 19431, heur = -9.0, depth = 9
iter = 12936, queue = 19432, heur = -9.0, depth = 9
iter = 12937, queue = 19433, heur = -9.0, depth = 10
iter = 12938, queue = 19435, heur = -9.0, depth = 9
iter = 12939, queue = 19437, heur = -9.0, depth = 9
iter = 12940, queue = 19439, heur = -9.0, depth = 9
iter = 12941, queue = 19438, heur = -9.0, depth = 9
iter = 12942, queue = 19439, heur = -9.0, depth = 9
iter = 12943, queue = 19442, heur = -9.0, depth = 9
iter = 12944, queue = 19445, heur = -9.0, depth = 9
iter = 12945, queue = 19448, heur = -9.0, depth = 9
iter = 12946, queue = 19450, heur = -9.0, depth = 9
iter = 12947, queue = 19451, heur = -9.0, depth = 9
iter = 12948, queue = 19452, heur = -9.0, depth = 9
iter = 12949, queue = 19454, heur = -9.0, depth = 9
iter = 12950, queue = 19453, heur = -9.0, depth = 9
iter = 12951, queue = 19454, heur = -9.0, depth = 9
iter = 12952, queue = 19456, heur = -9.0, depth = 9
iter = 12953, queue = 19459, heur = -9.0, depth = 9
iter = 12954, queue = 19460, heur = -9.0, depth = 9
iter = 12955, queue = 19459, heur = -9.0, depth = 9
iter = 12956, queue = 19462, heur = -9.0, depth = 9
iter = 12957, queue = 19463, heur = -9.0, depth = 9
iter = 12958, queue = 19465, heur = -9.0, depth = 9
iter = 12959, queue = 19466, heur = -9.0, depth = 9
iter = 12960, queue = 19465, heur = -9.0, depth = 9
iter = 12961, queue = 19465, heur = -9.0, depth = 9
iter = 12962, queue = 19467, heur = -9.0, depth = 9
iter = 12963, queue = 19467, heur = -9.0, depth = 9
iter = 12964, queue = 19468, heur = -9.0, depth = 9
iter = 12965, queue = 19469, heur = -9.0, depth = 9
iter = 12966, queue = 19471, heur = -9.0, depth = 9
iter = 12967, queue = 19474, heur = -9.0, depth = 9
iter = 12968, queue = 19475, heur = -9.0, depth = 9
iter = 12969, queue = 19476, heur = -9.0, depth = 9
iter = 12970, queue = 19478, heur = -9.0, depth = 9
iter = 12971, queue = 19479, heur = -9.0, depth = 9
iter = 12972, queue = 19482, heur = -9.0, depth = 9
iter = 12973, queue = 19485, heur = -9.0, depth = 9
iter = 12974, queue = 19488, heur = -9.0, depth = 9
iter = 12975, queue = 19491, heur = -9.0, depth = 9
iter = 12976, queue = 19492, heur = -9.0, depth = 9
iter = 12977, queue = 19495, heur = -9.0, depth = 9
iter = 12978, queue = 19496, heur = -9.0, depth = 9
```

```
iter = 12979, queue = 19499, heur = -9.0, depth = 9
iter = 12980, queue = 19498, heur = -9.0, depth = 9
iter = 12981, queue = 19500, heur = -9.0, depth = 9
iter = 12982, queue = 19501, heur = -9.0, depth = 9
iter = 12983, queue = 19502, heur = -9.0, depth = 9
iter = 12984, queue = 19503, heur = -9.0, depth = 10
iter = 12985, queue = 19504, heur = -9.0, depth = 9
iter = 12986, queue = 19505, heur = -9.0, depth = 9
iter = 12987, queue = 19506, heur = -9.0, depth = 9
iter = 12988, queue = 19506, heur = -9.0, depth = 9
iter = 12989, queue = 19506, heur = -9.0, depth = 9
iter = 12990, queue = 19507, heur = -9.0, depth = 9
iter = 12991, queue = 19508, heur = -9.0, depth = 9
iter = 12992, queue = 19511, heur = -9.0, depth = 9
iter = 12993, queue = 19514, heur = -9.0, depth = 9
iter = 12994, queue = 19517, heur = -9.0, depth = 9
iter = 12995, queue = 19520, heur = -9.0, depth = 9
iter = 12996, queue = 19521, heur = -9.0, depth = 10
iter = 12997, queue = 19522, heur = -9.0, depth = 10
iter = 12998, queue = 19523, heur = -9.0, depth = 9
iter = 12999, queue = 19523, heur = -9.0, depth = 9
iter = 13000, queue = 19524, heur = -9.0, depth = 9
iter = 13001, queue = 19525, heur = -9.0, depth = 10
iter = 13002, queue = 19526, heur = -9.0, depth = 9
iter = 13003, queue = 19529, heur = -9.0, depth = 9
iter = 13004, queue = 19529, heur = -9.0, depth = 9
iter = 13005, queue = 19530, heur = -9.0, depth = 9
iter = 13006, queue = 19531, heur = -9.0, depth = 9
iter = 13007, queue = 19534, heur = -9.0, depth = 9
iter = 13008, queue = 19537, heur = -9.0, depth = 9
iter = 13009, queue = 19538, heur = -9.0, depth = 9
iter = 13010, queue = 19539, heur = -9.0, depth = 9
iter = 13011, queue = 19542, heur = -9.0, depth = 9
iter = 13012, queue = 19544, heur = -9.0, depth = 9
iter = 13013, queue = 19546, heur = -9.0, depth = 10
iter = 13014, queue = 19548, heur = -9.0, depth = 9
iter = 13015, queue = 19549, heur = -9.0, depth = 9
iter = 13016, queue = 19550, heur = -9.0, depth = 9
iter = 13017, queue = 19551, heur = -9.0, depth = 9
iter = 13018, queue = 19554, heur = -9.0, depth = 9
iter = 13019, queue = 19555, heur = -9.0, depth = 9
iter = 13020, queue = 19556, heur = -9.0, depth = 10
iter = 13021, queue = 19559, heur = -9.0, depth = 10
iter = 13022, queue = 19560, heur = -9.0, depth = 9
iter = 13023, queue = 19561, heur = -9.0, depth = 9
iter = 13024, queue = 19564, heur = -9.0, depth = 10
iter = 13025, queue = 19565, heur = -9.0, depth = 9
iter = 13026, queue = 19566, heur = -9.0, depth = 9
iter = 13027, queue = 19567, heur = -9.0, depth = 9
iter = 13028, queue = 19570, heur = -9.0, depth = 9
iter = 13029, queue = 19571, heur = -9.0, depth = 9
iter = 13030, queue = 19572, heur = -9.0, depth = 9
iter = 13031, queue = 19573, heur = -9.0, depth = 9
iter = 13032, queue = 19574, heur = -9.0, depth = 9
iter = 13033, queue = 19576, heur = -9.0, depth = 9
iter = 13034, queue = 19577, heur = -9.0, depth = 9
iter = 13035, queue = 19580, heur = -9.0, depth = 9
iter = 13036, queue = 19580, heur = -9.0, depth = 9
iter = 13037, queue = 19581, heur = -9.0, depth = 9
```

```
iter = 13038, queue = 19584, heur = -9.0, depth = 9
iter = 13039, queue = 19587, heur = -9.0, depth = 9
iter = 13040, queue = 19588, heur = -9.0, depth = 9
iter = 13041, queue = 19589, heur = -9.0, depth = 9
iter = 13042, queue = 19592, heur = -9.0, depth = 9
iter = 13043, queue = 19593, heur = -9.0, depth = 9
iter = 13044, queue = 19594, heur = -9.0, depth = 9
iter = 13045, queue = 19595, heur = -9.0, depth = 9
iter = 13046, queue = 19595, heur = -9.0, depth = 9
iter = 13047, queue = 19598, heur = -9.0, depth = 9
iter = 13048, queue = 19597, heur = -9.0, depth = 9
iter = 13049, queue = 19600, heur = -9.0, depth = 9
iter = 13050, queue = 19599, heur = -9.0, depth = 9
iter = 13051, queue = 19598, heur = -9.0, depth = 9
iter = 13052, queue = 19599, heur = -9.0, depth = 9
iter = 13053, queue = 19599, heur = -9.0, depth = 9
iter = 13054, queue = 19600, heur = -9.0, depth = 9
iter = 13055, queue = 19601, heur = -9.0, depth = 9
iter = 13056, queue = 19603, heur = -9.0, depth = 9
iter = 13057, queue = 19606, heur = -9.0, depth = 9
iter = 13058, queue = 19609, heur = -9.0, depth = 9
iter = 13059, queue = 19612, heur = -9.0, depth = 9
iter = 13060, queue = 19612, heur = -9.0, depth = 9
iter = 13061, queue = 19613, heur = -9.0, depth = 9
iter = 13062, queue = 19615, heur = -9.0, depth = 9
iter = 13063, queue = 19616, heur = -9.0, depth = 9
iter = 13064, queue = 19615, heur = -9.0, depth = 9
iter = 13065, queue = 19616, heur = -9.0, depth = 11
iter = 13066, queue = 19617, heur = -9.0, depth = 9
iter = 13067, queue = 19620, heur = -9.0, depth = 9
iter = 13068, queue = 19623, heur = -9.0, depth = 9
iter = 13069, queue = 19624, heur = -9.0, depth = 9
iter = 13070, queue = 19627, heur = -9.0, depth = 10
iter = 13071, queue = 19630, heur = -9.0, depth = 9
iter = 13072, queue = 19632, heur = -9.0, depth = 10
iter = 13073, queue = 19635, heur = -9.0, depth = 10
iter = 13074, queue = 19638, heur = -9.0, depth = 9
iter = 13075, queue = 19640, heur = -9.0, depth = 9
iter = 13076, queue = 19641, heur = -9.0, depth = 9
iter = 13077, queue = 19642, heur = -9.0, depth = 9
iter = 13078, queue = 19645, heur = -9.0, depth = 9
iter = 13079, queue = 19647, heur = -9.0, depth = 9
iter = 13080, queue = 19648, heur = -9.0, depth = 9
iter = 13081, queue = 19649, heur = -9.0, depth = 9
iter = 13082, queue = 19648, heur = -9.0, depth = 9
iter = 13083, queue = 19647, heur = -9.0, depth = 9
iter = 13084, queue = 19646, heur = -9.0, depth = 9
iter = 13085, queue = 19647, heur = -9.0, depth = 9
iter = 13086, queue = 19648, heur = -9.0, depth = 9
iter = 13087, queue = 19648, heur = -9.0, depth = 9
iter = 13088, queue = 19651, heur = -9.0, depth = 9
iter = 13089, queue = 19654, heur = -9.0, depth = 9
iter = 13090, queue = 19657, heur = -9.0, depth = 9
iter = 13091, queue = 19658, heur = -9.0, depth = 9
iter = 13092, queue = 19661, heur = -9.0, depth = 9
iter = 13093, queue = 19662, heur = -9.0, depth = 9
iter = 13094, queue = 19665, heur = -9.0, depth = 9
iter = 13095, queue = 19668, heur = -9.0, depth = 9
iter = 13096, queue = 19669, heur = -9.0, depth = 9
```

```
iter = 13097, queue = 19668, heur = -9.0, depth = 9
iter = 13098, queue = 19668, heur = -9.0, depth = 9
iter = 13099, queue = 19670, heur = -9.0, depth = 9
iter = 13100, queue = 19672, heur = -9.0, depth = 9
iter = 13101, queue = 19673, heur = -9.0, depth = 9
iter = 13102, queue = 19673, heur = -9.0, depth = 9
iter = 13103, queue = 19676, heur = -9.0, depth = 9
iter = 13104, queue = 19677, heur = -9.0, depth = 9
iter = 13105, queue = 19678, heur = -9.0, depth = 9
iter = 13106, queue = 19681, heur = -9.0, depth = 9
iter = 13107, queue = 19683, heur = -9.0, depth = 9
iter = 13108, queue = 19683, heur = -9.0, depth = 9
iter = 13109, queue = 19684, heur = -9.0, depth = 9
iter = 13110, queue = 19685, heur = -9.0, depth = 9
iter = 13111, queue = 19686, heur = -9.0, depth = 9
iter = 13112, queue = 19687, heur = -9.0, depth = 10
iter = 13113, queue = 19688, heur = -9.0, depth = 9
iter = 13114, queue = 19689, heur = -9.0, depth = 9
iter = 13115, queue = 19690, heur = -9.0, depth = 9
iter = 13116, queue = 19693, heur = -9.0, depth = 10
iter = 13117, queue = 19693, heur = -9.0, depth = 10
iter = 13118, queue = 19696, heur = -9.0, depth = 9
iter = 13119, queue = 19697, heur = -9.0, depth = 9
iter = 13120, queue = 19700, heur = -9.0, depth = 9
iter = 13121, queue = 19703, heur = -9.0, depth = 9
iter = 13122, queue = 19706, heur = -9.0, depth = 9
iter = 13123, queue = 19709, heur = -9.0, depth = 9
iter = 13124, queue = 19710, heur = -9.0, depth = 9
iter = 13125, queue = 19711, heur = -9.0, depth = 9
iter = 13126, queue = 19712, heur = -9.0, depth = 9
iter = 13127, queue = 19715, heur = -9.0, depth = 9
iter = 13128, queue = 19716, heur = -9.0, depth = 9
iter = 13129, queue = 19718, heur = -9.0, depth = 9
iter = 13130, queue = 19721, heur = -9.0, depth = 9
iter = 13131, queue = 19721, heur = -9.0, depth = 9
iter = 13132, queue = 19722, heur = -9.0, depth = 9
iter = 13133, queue = 19725, heur = -9.0, depth = 9
iter = 13134, queue = 19727, heur = -9.0, depth = 9
iter = 13135, queue = 19729, heur = -9.0, depth = 9
iter = 13136, queue = 19732, heur = -9.0, depth = 9
iter = 13137, queue = 19733, heur = -9.0, depth = 9
iter = 13138, queue = 19736, heur = -9.0, depth = 9
iter = 13139, queue = 19736, heur = -9.0, depth = 9
iter = 13140, queue = 19737, heur = -9.0, depth = 9
iter = 13141, queue = 19739, heur = -9.0, depth = 9
iter = 13142, queue = 19740, heur = -9.0, depth = 9
iter = 13143, queue = 19741, heur = -9.0, depth = 9
iter = 13144, queue = 19743, heur = -9.0, depth = 9
iter = 13145, queue = 19745, heur = -9.0, depth = 9
iter = 13146, queue = 19745, heur = -9.0, depth = 9
iter = 13147, queue = 19744, heur = -9.0, depth = 9
iter = 13148, queue = 19746, heur = -9.0, depth = 9
iter = 13149, queue = 19748, heur = -9.0, depth = 9
iter = 13150, queue = 19751, heur = -9.0, depth = 9
iter = 13151, queue = 19752, heur = -9.0, depth = 11
iter = 13152, queue = 19755, heur = -9.0, depth = 9
iter = 13153, queue = 19756, heur = -9.0, depth = 9
iter = 13154, queue = 19755, heur = -9.0, depth = 11
iter = 13155, queue = 19758, heur = -9.0, depth = 11
```

```
iter = 13156, queue = 19761, heur = -9.0, depth = 9
iter = 13157, queue = 19764, heur = -9.0, depth = 9
iter = 13158, queue = 19767, heur = -9.0, depth = 9
iter = 13159, queue = 19768, heur = -9.0, depth = 10
iter = 13160, queue = 19769, heur = -9.0, depth = 10
iter = 13161, queue = 19769, heur = -9.0, depth = 9
iter = 13162, queue = 19770, heur = -9.0, depth = 9
iter = 13163, queue = 19771, heur = -9.0, depth = 9
iter = 13164, queue = 19771, heur = -9.0, depth = 9
iter = 13165, queue = 19770, heur = -9.0, depth = 9
iter = 13166, queue = 19773, heur = -9.0, depth = 9
iter = 13167, queue = 19774, heur = -9.0, depth = 9
iter = 13168, queue = 19775, heur = -9.0, depth = 9
iter = 13169, queue = 19776, heur = -9.0, depth = 10
iter = 13170, queue = 19779, heur = -9.0, depth = 10
iter = 13171, queue = 19782, heur = -9.0, depth = 9
iter = 13172, queue = 19784, heur = -9.0, depth = 9
iter = 13173, queue = 19784, heur = -9.0, depth = 9
iter = 13174, queue = 19785, heur = -9.0, depth = 9
iter = 13175, queue = 19787, heur = -9.0, depth = 9
iter = 13176, queue = 19786, heur = -9.0, depth = 9
iter = 13177, queue = 19788, heur = -9.0, depth = 9
iter = 13178, queue = 19791, heur = -9.0, depth = 9
iter = 13179, queue = 19794, heur = -9.0, depth = 9
iter = 13180, queue = 19797, heur = -9.0, depth = 9
iter = 13181, queue = 19798, heur = -9.0, depth = 9
iter = 13182, queue = 19801, heur = -9.0, depth = 9
iter = 13183, queue = 19804, heur = -9.0, depth = 9
iter = 13184, queue = 19807, heur = -9.0, depth = 9
iter = 13185, queue = 19810, heur = -9.0, depth = 9
iter = 13186, queue = 19813, heur = -9.0, depth = 9
iter = 13187, queue = 19816, heur = -9.0, depth = 9
iter = 13188, queue = 19817, heur = -9.0, depth = 9
iter = 13189, queue = 19816, heur = -9.0, depth = 9
iter = 13190, queue = 19818, heur = -9.0, depth = 9
iter = 13191, queue = 19818, heur = -9.0, depth = 9
iter = 13192, queue = 19818, heur = -9.0, depth = 9
iter = 13193, queue = 19821, heur = -9.0, depth = 9
iter = 13194, queue = 19822, heur = -9.0, depth = 9
iter = 13195, queue = 19823, heur = -9.0, depth = 9
iter = 13196, queue = 19826, heur = -9.0, depth = 9
iter = 13197, queue = 19826, heur = -9.0, depth = 9
iter = 13198, queue = 19827, heur = -9.0, depth = 9
iter = 13199, queue = 19830, heur = -9.0, depth = 9
iter = 13200, queue = 19829, heur = -9.0, depth = 9
iter = 13201, queue = 19831, heur = -9.0, depth = 9
iter = 13202, queue = 19833, heur = -9.0, depth = 9
iter = 13203, queue = 19833, heur = -9.0, depth = 9
iter = 13204, queue = 19836, heur = -9.0, depth = 9
iter = 13205, queue = 19839, heur = -9.0, depth = 9
iter = 13206, queue = 19840, heur = -9.0, depth = 9
iter = 13207, queue = 19841, heur = -9.0, depth = 9
iter = 13208, queue = 19842, heur = -9.0, depth = 9
iter = 13209, queue = 19845, heur = -9.0, depth = 9
iter = 13210, queue = 19847, heur = -9.0, depth = 9
iter = 13211, queue = 19849, heur = -9.0, depth = 9
iter = 13212, queue = 19849, heur = -9.0, depth = 9
iter = 13213, queue = 19850, heur = -9.0, depth = 9
iter = 13214, queue = 19853, heur = -9.0, depth = 9
```

```
iter = 13215, queue = 19854, heur = -9.0, depth = 9
iter = 13216, queue = 19855, heur = -9.0, depth = 9
iter = 13217, queue = 19858, heur = -9.0, depth = 9
iter = 13218, queue = 19859, heur = -9.0, depth = 9
iter = 13219, queue = 19861, heur = -9.0, depth = 9
iter = 13220, queue = 19864, heur = -9.0, depth = 9
iter = 13221, queue = 19865, heur = -9.0, depth = 9
iter = 13222, queue = 19868, heur = -9.0, depth = 9
iter = 13223, queue = 19869, heur = -9.0, depth = 9
iter = 13224, queue = 19870, heur = -9.0, depth = 9
iter = 13225, queue = 19872, heur = -9.0, depth = 9
iter = 13226, queue = 19874, heur = -9.0, depth = 9
iter = 13227, queue = 19875, heur = -9.0, depth = 9
iter = 13228, queue = 19876, heur = -9.0, depth = 9
iter = 13229, queue = 19879, heur = -9.0, depth = 9
iter = 13230, queue = 19882, heur = -9.0, depth = 9
iter = 13231, queue = 19884, heur = -9.0, depth = 9
iter = 13232, queue = 19885, heur = -9.0, depth = 9
iter = 13233, queue = 19886, heur = -9.0, depth = 9
iter = 13234, queue = 19888, heur = -9.0, depth = 9
iter = 13235, queue = 19891, heur = -9.0, depth = 9
iter = 13236, queue = 19894, heur = -9.0, depth = 9
iter = 13237, queue = 19894, heur = -9.0, depth = 9
iter = 13238, queue = 19896, heur = -9.0, depth = 9
iter = 13239, queue = 19897, heur = -9.0, depth = 9
iter = 13240, queue = 19898, heur = -9.0, depth = 10
iter = 13241, queue = 19901, heur = -9.0, depth = 9
iter = 13242, queue = 19902, heur = -9.0, depth = 9
iter = 13243, queue = 19904, heur = -9.0, depth = 9
iter = 13244, queue = 19905, heur = -9.0, depth = 10
iter = 13245, queue = 19906, heur = -9.0, depth = 10
iter = 13246, queue = 19907, heur = -9.0, depth = 9
iter = 13247, queue = 19908, heur = -9.0, depth = 10
iter = 13248, queue = 19909, heur = -9.0, depth = 9
iter = 13249, queue = 19910, heur = -9.0, depth = 9
iter = 13250, queue = 19911, heur = -9.0, depth = 9
iter = 13251, queue = 19912, heur = -9.0, depth = 9
iter = 13252, queue = 19912, heur = -9.0, depth = 10
iter = 13253, queue = 19915, heur = -9.0, depth = 10
iter = 13254, queue = 19918, heur = -9.0, depth = 9
iter = 13255, queue = 19920, heur = -9.0, depth = 9
iter = 13256, queue = 19921, heur = -9.0, depth = 9
iter = 13257, queue = 19923, heur = -9.0, depth = 9
iter = 13258, queue = 19924, heur = -9.0, depth = 9
iter = 13259, queue = 19923, heur = -9.0, depth = 9
iter = 13260, queue = 19924, heur = -9.0, depth = 9
iter = 13261, queue = 19924, heur = -9.0, depth = 9
iter = 13262, queue = 19925, heur = -9.0, depth = 9
iter = 13263, queue = 19926, heur = -9.0, depth = 9
iter = 13264, queue = 19929, heur = -9.0, depth = 9
iter = 13265, queue = 19932, heur = -9.0, depth = 9
iter = 13266, queue = 19933, heur = -9.0, depth = 9
iter = 13267, queue = 19935, heur = -9.0, depth = 9
iter = 13268, queue = 19935, heur = -9.0, depth = 9
iter = 13269, queue = 19936, heur = -9.0, depth = 9
iter = 13270, queue = 19937, heur = -9.0, depth = 9
iter = 13271, queue = 19938, heur = -9.0, depth = 9
iter = 13272, queue = 19941, heur = -9.0, depth = 9
iter = 13273, queue = 19942, heur = -9.0, depth = 9
```

```
iter = 13274, queue = 19943, heur = -9.0, depth = 9
iter = 13275, queue = 19946, heur = -9.0, depth = 9
iter = 13276, queue = 19948, heur = -9.0, depth = 9
iter = 13277, queue = 19949, heur = -9.0, depth = 9
iter = 13278, queue = 19950, heur = -9.0, depth = 9
iter = 13279, queue = 19951, heur = -9.0, depth = 9
iter = 13280, queue = 19951, heur = -9.0, depth = 9
iter = 13281, queue = 19952, heur = -9.0, depth = 9
iter = 13282, queue = 19955, heur = -9.0, depth = 9
iter = 13283, queue = 19958, heur = -9.0, depth = 9
iter = 13284, queue = 19960, heur = -9.0, depth = 9
iter = 13285, queue = 19961, heur = -9.0, depth = 9
iter = 13286, queue = 19962, heur = -9.0, depth = 9
iter = 13287, queue = 19964, heur = -9.0, depth = 9
iter = 13288, queue = 19964, heur = -9.0, depth = 9
iter = 13289, queue = 19966, heur = -9.0, depth = 9
iter = 13290, queue = 19969, heur = -9.0, depth = 9
iter = 13291, queue = 19970, heur = -9.0, depth = 9
iter = 13292, queue = 19973, heur = -9.0, depth = 9
iter = 13293, queue = 19975, heur = -9.0, depth = 9
iter = 13294, queue = 19975, heur = -9.0, depth = 9
iter = 13295, queue = 19976, heur = -9.0, depth = 9
iter = 13296, queue = 19977, heur = -9.0, depth = 9
iter = 13297, queue = 19978, heur = -9.0, depth = 9
iter = 13298, queue = 19979, heur = -9.0, depth = 9
iter = 13299, queue = 19982, heur = -9.0, depth = 9
iter = 13300, queue = 19985, heur = -9.0, depth = 9
iter = 13301, queue = 19987, heur = -9.0, depth = 9
iter = 13302, queue = 19989, heur = -9.0, depth = 9
iter = 13303, queue = 19991, heur = -9.0, depth = 9
iter = 13304, queue = 19993, heur = -9.0, depth = 9
iter = 13305, queue = 19993, heur = -9.0, depth = 9
iter = 13306, queue = 19994, heur = -9.0, depth = 9
iter = 13307, queue = 19997, heur = -9.0, depth = 9
iter = 13308, queue = 20000, heur = -9.0, depth = 9
iter = 13309, queue = 20001, heur = -9.0, depth = 9
iter = 13310, queue = 20002, heur = -9.0, depth = 9
iter = 13311, queue = 20005, heur = -9.0, depth = 9
iter = 13312, queue = 20008, heur = -9.0, depth = 9
iter = 13313, queue = 20008, heur = -9.0, depth = 9
iter = 13314, queue = 20010, heur = -9.0, depth = 9
iter = 13315, queue = 20011, heur = -9.0, depth = 9
iter = 13316, queue = 20012, heur = -9.0, depth = 9
iter = 13317, queue = 20011, heur = -9.0, depth = 9
iter = 13318, queue = 20012, heur = -9.0, depth = 9
iter = 13319, queue = 20014, heur = -9.0, depth = 10
iter = 13320, queue = 20013, heur = -9.0, depth = 9
iter = 13321, queue = 20012, heur = -9.0, depth = 9
iter = 13322, queue = 20013, heur = -9.0, depth = 9
iter = 13323, queue = 20015, heur = -9.0, depth = 9
iter = 13324, queue = 20016, heur = -9.0, depth = 9
iter = 13325, queue = 20018, heur = -9.0, depth = 9
iter = 13326, queue = 20020, heur = -9.0, depth = 9
iter = 13327, queue = 20019, heur = -9.0, depth = 10
iter = 13328, queue = 20022, heur = -9.0, depth = 9
iter = 13329, queue = 20021, heur = -9.0, depth = 9
iter = 13330, queue = 20021, heur = -9.0, depth = 9
iter = 13331, queue = 20024, heur = -9.0, depth = 9
iter = 13332, queue = 20027, heur = -9.0, depth = 9
```

```
iter = 13333, queue = 20028, heur = -9.0, depth = 9
iter = 13334, queue = 20029, heur = -9.0, depth = 9
iter = 13335, queue = 20030, heur = -9.0, depth = 10
iter = 13336, queue = 20033, heur = -9.0, depth = 9
iter = 13337, queue = 20034, heur = -9.0, depth = 9
iter = 13338, queue = 20037, heur = -9.0, depth = 9
iter = 13339, queue = 20039, heur = -9.0, depth = 9
iter = 13340, queue = 20039, heur = -9.0, depth = 9
iter = 13341, queue = 20041, heur = -9.0, depth = 9
iter = 13342, queue = 20042, heur = -9.0, depth = 9
iter = 13343, queue = 20045, heur = -9.0, depth = 9
iter = 13344, queue = 20045, heur = -9.0, depth = 9
iter = 13345, queue = 20046, heur = -9.0, depth = 9
iter = 13346, queue = 20047, heur = -9.0, depth = 9
iter = 13347, queue = 20048, heur = -9.0, depth = 9
iter = 13348, queue = 20047, heur = -9.0, depth = 9
iter = 13349, queue = 20049, heur = -9.0, depth = 9
iter = 13350, queue = 20050, heur = -9.0, depth = 10
iter = 13351, queue = 20052, heur = -9.0, depth = 10
iter = 13352, queue = 20053, heur = -9.0, depth = 10
iter = 13353, queue = 20054, heur = -9.0, depth = 9
iter = 13354, queue = 20057, heur = -9.0, depth = 9
iter = 13355, queue = 20060, heur = -9.0, depth = 9
iter = 13356, queue = 20063, heur = -9.0, depth = 9
iter = 13357, queue = 20066, heur = -9.0, depth = 9
iter = 13358, queue = 20067, heur = -9.0, depth = 9
iter = 13359, queue = 20067, heur = -9.0, depth = 9
iter = 13360, queue = 20066, heur = -9.0, depth = 9
iter = 13361, queue = 20066, heur = -9.0, depth = 9
iter = 13362, queue = 20067, heur = -9.0, depth = 9
iter = 13363, queue = 20070, heur = -9.0, depth = 9
iter = 13364, queue = 20072, heur = -9.0, depth = 9
iter = 13365, queue = 20074, heur = -9.0, depth = 9
iter = 13366, queue = 20075, heur = -9.0, depth = 9
iter = 13367, queue = 20077, heur = -9.0, depth = 10
iter = 13368, queue = 20078, heur = -9.0, depth = 9
iter = 13369, queue = 20078, heur = -9.0, depth = 9
iter = 13370, queue = 20081, heur = -9.0, depth = 9
iter = 13371, queue = 20083, heur = -9.0, depth = 9
iter = 13372, queue = 20082, heur = -9.0, depth = 9
iter = 13373, queue = 20085, heur = -9.0, depth = 9
iter = 13374, queue = 20088, heur = -9.0, depth = 10
iter = 13375, queue = 20090, heur = -9.0, depth = 9
iter = 13376, queue = 20090, heur = -9.0, depth = 9
iter = 13377, queue = 20091, heur = -9.0, depth = 9
iter = 13378, queue = 20092, heur = -9.0, depth = 9
iter = 13379, queue = 20093, heur = -9.0, depth = 11
iter = 13380, queue = 20095, heur = -9.0, depth = 9
iter = 13381, queue = 20096, heur = -9.0, depth = 9
iter = 13382, queue = 20098, heur = -9.0, depth = 10
iter = 13383, queue = 20099, heur = -9.0, depth = 10
iter = 13384, queue = 20102, heur = -9.0, depth = 10
iter = 13385, queue = 20104, heur = -9.0, depth = 9
iter = 13386, queue = 20107, heur = -9.0, depth = 9
iter = 13387, queue = 20108, heur = -9.0, depth = 9
iter = 13388, queue = 20109, heur = -9.0, depth = 9
iter = 13389, queue = 20110, heur = -9.0, depth = 10
iter = 13390, queue = 20112, heur = -9.0, depth = 9
iter = 13391, queue = 20111, heur = -9.0, depth = 9
```

```
iter = 13392, queue = 20113, heur = -9.0, depth = 9
iter = 13393, queue = 20113, heur = -9.0, depth = 9
iter = 13394, queue = 20114, heur = -9.0, depth = 9
iter = 13395, queue = 20117, heur = -9.0, depth = 9
iter = 13396, queue = 20120, heur = -9.0, depth = 9
iter = 13397, queue = 20120, heur = -9.0, depth = 10
iter = 13398, queue = 20123, heur = -9.0, depth = 9
iter = 13399, queue = 20123, heur = -9.0, depth = 9
iter = 13400, queue = 20126, heur = -9.0, depth = 9
iter = 13401, queue = 20127, heur = -9.0, depth = 9
iter = 13402, queue = 20129, heur = -9.0, depth = 10
iter = 13403, queue = 20132, heur = -9.0, depth = 9
iter = 13404, queue = 20133, heur = -9.0, depth = 9
iter = 13405, queue = 20136, heur = -9.0, depth = 9
iter = 13406, queue = 20137, heur = -9.0, depth = 9
iter = 13407, queue = 20139, heur = -9.0, depth = 9
iter = 13408, queue = 20139, heur = -9.0, depth = 9
iter = 13409, queue = 20140, heur = -9.0, depth = 9
iter = 13410, queue = 20140, heur = -9.0, depth = 9
iter = 13411, queue = 20141, heur = -9.0, depth = 9
iter = 13412, queue = 20142, heur = -9.0, depth = 9
iter = 13413, queue = 20145, heur = -9.0, depth = 9
iter = 13414, queue = 20147, heur = -9.0, depth = 9
iter = 13415, queue = 20148, heur = -9.0, depth = 9
iter = 13416, queue = 20148, heur = -9.0, depth = 9
iter = 13417, queue = 20149, heur = -9.0, depth = 9
iter = 13418, queue = 20149, heur = -9.0, depth = 9
iter = 13419, queue = 20149, heur = -9.0, depth = 9
iter = 13420, queue = 20151, heur = -9.0, depth = 9
iter = 13421, queue = 20152, heur = -9.0, depth = 9
iter = 13422, queue = 20155, heur = -9.0, depth = 9
iter = 13423, queue = 20156, heur = -9.0, depth = 9
iter = 13424, queue = 20157, heur = -9.0, depth = 9
iter = 13425, queue = 20156, heur = -9.0, depth = 9
iter = 13426, queue = 20157, heur = -9.0, depth = 10
iter = 13427, queue = 20160, heur = -9.0, depth = 9
iter = 13428, queue = 20161, heur = -9.0, depth = 9
iter = 13429, queue = 20161, heur = -9.0, depth = 9
iter = 13430, queue = 20164, heur = -9.0, depth = 9
iter = 13431, queue = 20166, heur = -9.0, depth = 9
iter = 13432, queue = 20167, heur = -9.0, depth = 9
iter = 13433, queue = 20168, heur = -9.0, depth = 9
iter = 13434, queue = 20171, heur = -9.0, depth = 9
iter = 13435, queue = 20173, heur = -9.0, depth = 9
iter = 13436, queue = 20176, heur = -9.0, depth = 9
iter = 13437, queue = 20179, heur = -9.0, depth = 9
iter = 13438, queue = 20182, heur = -9.0, depth = 9
iter = 13439, queue = 20184, heur = -9.0, depth = 9
iter = 13440, queue = 20185, heur = -9.0, depth = 9
iter = 13441, queue = 20188, heur = -9.0, depth = 9
iter = 13442, queue = 20190, heur = -9.0, depth = 9
iter = 13443, queue = 20191, heur = -9.0, depth = 9
iter = 13444, queue = 20191, heur = -9.0, depth = 10
iter = 13445, queue = 20192, heur = -9.0, depth = 10
iter = 13446, queue = 20195, heur = -9.0, depth = 9
iter = 13447, queue = 20198, heur = -9.0, depth = 9
iter = 13448, queue = 20199, heur = -9.0, depth = 9
iter = 13449, queue = 20200, heur = -9.0, depth = 9
iter = 13450, queue = 20201, heur = -9.0, depth = 9
```

```
iter = 13451, queue = 20202, heur = -9.0, depth = 9
iter = 13452, queue = 20203, heur = -9.0, depth = 9
iter = 13453, queue = 20204, heur = -9.0, depth = 9
iter = 13454, queue = 20205, heur = -9.0, depth = 9
iter = 13455, queue = 20206, heur = -9.0, depth = 9
iter = 13456, queue = 20208, heur = -9.0, depth = 9
iter = 13457, queue = 20209, heur = -9.0, depth = 9
iter = 13458, queue = 20210, heur = -9.0, depth = 9
iter = 13459, queue = 20211, heur = -9.0, depth = 10
iter = 13460, queue = 20212, heur = -9.0, depth = 9
iter = 13461, queue = 20213, heur = -9.0, depth = 9
iter = 13462, queue = 20214, heur = -9.0, depth = 9
iter = 13463, queue = 20215, heur = -9.0, depth = 9
iter = 13464, queue = 20214, heur = -9.0, depth = 9
iter = 13465, queue = 20216, heur = -9.0, depth = 9
iter = 13466, queue = 20217, heur = -9.0, depth = 10
iter = 13467, queue = 20218, heur = -9.0, depth = 10
iter = 13468, queue = 20217, heur = -9.0, depth = 9
iter = 13469, queue = 20220, heur = -9.0, depth = 9
iter = 13470, queue = 20223, heur = -9.0, depth = 9
iter = 13471, queue = 20224, heur = -9.0, depth = 10
iter = 13472, queue = 20225, heur = -9.0, depth = 9
iter = 13473, queue = 20227, heur = -9.0, depth = 9
iter = 13474, queue = 20230, heur = -9.0, depth = 9
iter = 13475, queue = 20231, heur = -9.0, depth = 9
iter = 13476, queue = 20233, heur = -9.0, depth = 9
iter = 13477, queue = 20234, heur = -9.0, depth = 9
iter = 13478, queue = 20235, heur = -9.0, depth = 10
iter = 13479, queue = 20237, heur = -9.0, depth = 9
iter = 13480, queue = 20238, heur = -9.0, depth = 9
iter = 13481, queue = 20239, heur = -9.0, depth = 10
iter = 13482, queue = 20240, heur = -9.0, depth = 9
iter = 13483, queue = 20241, heur = -9.0, depth = 9
iter = 13484, queue = 20243, heur = -9.0, depth = 9
iter = 13485, queue = 20243, heur = -9.0, depth = 9
iter = 13486, queue = 20246, heur = -9.0, depth = 9
iter = 13487, queue = 20249, heur = -9.0, depth = 9
iter = 13488, queue = 20252, heur = -9.0, depth = 9
iter = 13489, queue = 20255, heur = -9.0, depth = 9
iter = 13490, queue = 20256, heur = -9.0, depth = 9
iter = 13491, queue = 20257, heur = -9.0, depth = 9
iter = 13492, queue = 20258, heur = -9.0, depth = 9
iter = 13493, queue = 20260, heur = -9.0, depth = 9
iter = 13494, queue = 20262, heur = -9.0, depth = 9
iter = 13495, queue = 20265, heur = -9.0, depth = 9
iter = 13496, queue = 20266, heur = -9.0, depth = 9
iter = 13497, queue = 20267, heur = -9.0, depth = 9
iter = 13498, queue = 20268, heur = -9.0, depth = 9
iter = 13499, queue = 20271, heur = -9.0, depth = 9
iter = 13500, queue = 20271, heur = -9.0, depth = 9
iter = 13501, queue = 20274, heur = -9.0, depth = 9
iter = 13502, queue = 20275, heur = -9.0, depth = 9
iter = 13503, queue = 20275, heur = -9.0, depth = 9
iter = 13504, queue = 20276, heur = -9.0, depth = 9
iter = 13505, queue = 20278, heur = -9.0, depth = 9
iter = 13506, queue = 20281, heur = -9.0, depth = 9
iter = 13507, queue = 20282, heur = -9.0, depth = 9
iter = 13508, queue = 20284, heur = -9.0, depth = 9
iter = 13509, queue = 20286, heur = -9.0, depth = 9
```

```
iter = 13510, queue = 20286, heur = -9.0, depth = 9
iter = 13511, queue = 20287, heur = -9.0, depth = 9
iter = 13512, queue = 20290, heur = -9.0, depth = 9
iter = 13513, queue = 20292, heur = -9.0, depth = 9
iter = 13514, queue = 20293, heur = -9.0, depth = 9
iter = 13515, queue = 20294, heur = -9.0, depth = 9
iter = 13516, queue = 20296, heur = -9.0, depth = 9
iter = 13517, queue = 20297, heur = -9.0, depth = 9
iter = 13518, queue = 20298, heur = -9.0, depth = 9
iter = 13519, queue = 20301, heur = -9.0, depth = 9
iter = 13520, queue = 20304, heur = -9.0, depth = 9
iter = 13521, queue = 20307, heur = -9.0, depth = 9
iter = 13522, queue = 20306, heur = -9.0, depth = 9
iter = 13523, queue = 20308, heur = -9.0, depth = 9
iter = 13524, queue = 20309, heur = -9.0, depth = 9
iter = 13525, queue = 20310, heur = -9.0, depth = 9
iter = 13526, queue = 20312, heur = -9.0, depth = 9
iter = 13527, queue = 20315, heur = -9.0, depth = 9
iter = 13528, queue = 20317, heur = -9.0, depth = 9
iter = 13529, queue = 20316, heur = -9.0, depth = 10
iter = 13530, queue = 20317, heur = -9.0, depth = 10
iter = 13531, queue = 20320, heur = -9.0, depth = 9
iter = 13532, queue = 20323, heur = -9.0, depth = 9
iter = 13533, queue = 20326, heur = -9.0, depth = 10
iter = 13534, queue = 20327, heur = -9.0, depth = 9
iter = 13535, queue = 20330, heur = -9.0, depth = 10
iter = 13536, queue = 20331, heur = -9.0, depth = 10
iter = 13537, queue = 20332, heur = -9.0, depth = 9
iter = 13538, queue = 20332, heur = -9.0, depth = 10
iter = 13539, queue = 20335, heur = -9.0, depth = 9
iter = 13540, queue = 20335, heur = -9.0, depth = 9
iter = 13541, queue = 20337, heur = -9.0, depth = 9
iter = 13542, queue = 20337, heur = -9.0, depth = 9
iter = 13543, queue = 20337, heur = -9.0, depth = 9
iter = 13544, queue = 20338, heur = -9.0, depth = 9
iter = 13545, queue = 20339, heur = -9.0, depth = 9
iter = 13546, queue = 20339, heur = -9.0, depth = 9
iter = 13547, queue = 20341, heur = -9.0, depth = 9
iter = 13548, queue = 20343, heur = -9.0, depth = 9
iter = 13549, queue = 20346, heur = -9.0, depth = 9
iter = 13550, queue = 20348, heur = -9.0, depth = 9
iter = 13551, queue = 20349, heur = -9.0, depth = 9
iter = 13552, queue = 20350, heur = -9.0, depth = 9
iter = 13553, queue = 20353, heur = -9.0, depth = 9
iter = 13554, queue = 20355, heur = -9.0, depth = 9
iter = 13555, queue = 20358, heur = -9.0, depth = 9
iter = 13556, queue = 20359, heur = -9.0, depth = 9
iter = 13557, queue = 20361, heur = -9.0, depth = 9
iter = 13558, queue = 20364, heur = -9.0, depth = 9
iter = 13559, queue = 20365, heur = -9.0, depth = 9
iter = 13560, queue = 20368, heur = -9.0, depth = 9
iter = 13561, queue = 20371, heur = -9.0, depth = 9
iter = 13562, queue = 20373, heur = -9.0, depth = 9
iter = 13563, queue = 20374, heur = -9.0, depth = 9
iter = 13564, queue = 20376, heur = -9.0, depth = 9
iter = 13565, queue = 20377, heur = -9.0, depth = 9
iter = 13566, queue = 20380, heur = -9.0, depth = 9
iter = 13567, queue = 20381, heur = -9.0, depth = 9
iter = 13568, queue = 20383, heur = -9.0, depth = 9
```

```
iter = 13569, queue = 20386, heur = -9.0, depth = 9
iter = 13570, queue = 20388, heur = -9.0, depth = 9
iter = 13571, queue = 20390, heur = -9.0, depth = 9
iter = 13572, queue = 20393, heur = -9.0, depth = 9
iter = 13573, queue = 20394, heur = -9.0, depth = 9
iter = 13574, queue = 20397, heur = -9.0, depth = 9
iter = 13575, queue = 20400, heur = -9.0, depth = 9
iter = 13576, queue = 20401, heur = -9.0, depth = 9
iter = 13577, queue = 20404, heur = -9.0, depth = 9
iter = 13578, queue = 20407, heur = -9.0, depth = 9
iter = 13579, queue = 20408, heur = -9.0, depth = 9
iter = 13580, queue = 20409, heur = -9.0, depth = 9
iter = 13581, queue = 20412, heur = -9.0, depth = 9
iter = 13582, queue = 20413, heur = -9.0, depth = 9
iter = 13583, queue = 20414, heur = -9.0, depth = 9
iter = 13584, queue = 20414, heur = -9.0, depth = 9
iter = 13585, queue = 20415, heur = -9.0, depth = 9
iter = 13586, queue = 20418, heur = -9.0, depth = 9
iter = 13587, queue = 20420, heur = -9.0, depth = 9
iter = 13588, queue = 20419, heur = -9.0, depth = 9
iter = 13589, queue = 20422, heur = -9.0, depth = 9
iter = 13590, queue = 20425, heur = -9.0, depth = 9
iter = 13591, queue = 20426, heur = -9.0, depth = 9
iter = 13592, queue = 20425, heur = -9.0, depth = 9
iter = 13593, queue = 20426, heur = -9.0, depth = 9
iter = 13594, queue = 20427, heur = -9.0, depth = 9
iter = 13595, queue = 20428, heur = -9.0, depth = 9
iter = 13596, queue = 20429, heur = -9.0, depth = 9
iter = 13597, queue = 20432, heur = -9.0, depth = 9
iter = 13598, queue = 20433, heur = -9.0, depth = 9
iter = 13599, queue = 20432, heur = -9.0, depth = 9
iter = 13600, queue = 20435, heur = -9.0, depth = 9
iter = 13601, queue = 20438, heur = -9.0, depth = 9
iter = 13602, queue = 20437, heur = -9.0, depth = 10
iter = 13603, queue = 20440, heur = -9.0, depth = 9
iter = 13604, queue = 20443, heur = -9.0, depth = 9
iter = 13605, queue = 20444, heur = -9.0, depth = 9
iter = 13606, queue = 20447, heur = -9.0, depth = 9
iter = 13607, queue = 20448, heur = -9.0, depth = 9
iter = 13608, queue = 20449, heur = -9.0, depth = 9
iter = 13609, queue = 20450, heur = -9.0, depth = 9
iter = 13610, queue = 20453, heur = -9.0, depth = 9
iter = 13611, queue = 20456, heur = -9.0, depth = 9
iter = 13612, queue = 20456, heur = -9.0, depth = 9
iter = 13613, queue = 20457, heur = -9.0, depth = 9
iter = 13614, queue = 20460, heur = -9.0, depth = 9
iter = 13615, queue = 20459, heur = -9.0, depth = 9
iter = 13616, queue = 20462, heur = -9.0, depth = 9
iter = 13617, queue = 20464, heur = -9.0, depth = 9
iter = 13618, queue = 20466, heur = -9.0, depth = 9
iter = 13619, queue = 20467, heur = -9.0, depth = 9
iter = 13620, queue = 20468, heur = -9.0, depth = 9
iter = 13621, queue = 20469, heur = -9.0, depth = 10
iter = 13622, queue = 20470, heur = -9.0, depth = 9
iter = 13623, queue = 20471, heur = -9.0, depth = 9
iter = 13624, queue = 20474, heur = -9.0, depth = 9
iter = 13625, queue = 20475, heur = -9.0, depth = 9
iter = 13626, queue = 20478, heur = -9.0, depth = 9
iter = 13627, queue = 20479, heur = -9.0, depth = 9
```

```
iter = 13628, queue = 20482, heur = -9.0, depth = 9
iter = 13629, queue = 20485, heur = -9.0, depth = 9
iter = 13630, queue = 20486, heur = -9.0, depth = 9
iter = 13631, queue = 20487, heur = -9.0, depth = 9
iter = 13632, queue = 20490, heur = -9.0, depth = 9
iter = 13633, queue = 20491, heur = -9.0, depth = 10
iter = 13634, queue = 20493, heur = -9.0, depth = 9
iter = 13635, queue = 20494, heur = -9.0, depth = 10
iter = 13636, queue = 20497, heur = -9.0, depth = 9
iter = 13637, queue = 20500, heur = -9.0, depth = 9
iter = 13638, queue = 20501, heur = -9.0, depth = 9
iter = 13639, queue = 20503, heur = -9.0, depth = 9
iter = 13640, queue = 20504, heur = -9.0, depth = 9
iter = 13641, queue = 20504, heur = -9.0, depth = 10
iter = 13642, queue = 20506, heur = -9.0, depth = 9
iter = 13643, queue = 20506, heur = -9.0, depth = 9
iter = 13644, queue = 20507, heur = -9.0, depth = 9
iter = 13645, queue = 20508, heur = -9.0, depth = 9
iter = 13646, queue = 20509, heur = -9.0, depth = 9
iter = 13647, queue = 20510, heur = -9.0, depth = 9
iter = 13648, queue = 20511, heur = -9.0, depth = 10
iter = 13649, queue = 20512, heur = -9.0, depth = 9
iter = 13650, queue = 20512, heur = -9.0, depth = 9
iter = 13651, queue = 20513, heur = -9.0, depth = 9
iter = 13652, queue = 20514, heur = -9.0, depth = 9
iter = 13653, queue = 20515, heur = -9.0, depth = 9
iter = 13654, queue = 20517, heur = -9.0, depth = 9
iter = 13655, queue = 20518, heur = -9.0, depth = 9
iter = 13656, queue = 20519, heur = -9.0, depth = 9
iter = 13657, queue = 20520, heur = -9.0, depth = 9
iter = 13658, queue = 20522, heur = -9.0, depth = 9
iter = 13659, queue = 20523, heur = -9.0, depth = 9
iter = 13660, queue = 20524, heur = -9.0, depth = 9
iter = 13661, queue = 20527, heur = -9.0, depth = 9
iter = 13662, queue = 20528, heur = -9.0, depth = 10
iter = 13663, queue = 20529, heur = -9.0, depth = 9
iter = 13664, queue = 20530, heur = -9.0, depth = 9
iter = 13665, queue = 20533, heur = -9.0, depth = 9
iter = 13666, queue = 20534, heur = -9.0, depth = 9
iter = 13667, queue = 20535, heur = -9.0, depth = 9
iter = 13668, queue = 20534, heur = -9.0, depth = 9
iter = 13669, queue = 20534, heur = -9.0, depth = 9
iter = 13670, queue = 20537, heur = -9.0, depth = 10
iter = 13671, queue = 20538, heur = -9.0, depth = 10
iter = 13672, queue = 20539, heur = -9.0, depth = 9
iter = 13673, queue = 20542, heur = -9.0, depth = 9
iter = 13674, queue = 20543, heur = -9.0, depth = 9
iter = 13675, queue = 20544, heur = -9.0, depth = 9
iter = 13676, queue = 20546, heur = -9.0, depth = 9
iter = 13677, queue = 20548, heur = -9.0, depth = 9
iter = 13678, queue = 20549, heur = -9.0, depth = 9
iter = 13679, queue = 20552, heur = -9.0, depth = 9
iter = 13680, queue = 20551, heur = -9.0, depth = 9
iter = 13681, queue = 20552, heur = -9.0, depth = 9
iter = 13682, queue = 20553, heur = -9.0, depth = 9
iter = 13683, queue = 20554, heur = -9.0, depth = 9
iter = 13684, queue = 20556, heur = -9.0, depth = 9
iter = 13685, queue = 20556, heur = -9.0, depth = 9
iter = 13686, queue = 20557, heur = -9.0, depth = 9
```

```
iter = 13687, queue = 20557, heur = -9.0, depth = 9
iter = 13688, queue = 20560, heur = -9.0, depth = 9
iter = 13689, queue = 20561, heur = -9.0, depth = 9
iter = 13690, queue = 20562, heur = -9.0, depth = 9
iter = 13691, queue = 20563, heur = -9.0, depth = 9
iter = 13692, queue = 20564, heur = -9.0, depth = 9
iter = 13693, queue = 20566, heur = -9.0, depth = 9
iter = 13694, queue = 20567, heur = -9.0, depth = 9
iter = 13695, queue = 20568, heur = -9.0, depth = 10
iter = 13696, queue = 20569, heur = -9.0, depth = 10
iter = 13697, queue = 20572, heur = -9.0, depth = 9
iter = 13698, queue = 20573, heur = -9.0, depth = 9
iter = 13699, queue = 20576, heur = -9.0, depth = 9
iter = 13700, queue = 20577, heur = -9.0, depth = 9
iter = 13701, queue = 20576, heur = -9.0, depth = 10
iter = 13702, queue = 20577, heur = -9.0, depth = 9
iter = 13703, queue = 20578, heur = -9.0, depth = 9
iter = 13704, queue = 20577, heur = -9.0, depth = 9
iter = 13705, queue = 20578, heur = -9.0, depth = 9
iter = 13706, queue = 20579, heur = -9.0, depth = 9
iter = 13707, queue = 20580, heur = -9.0, depth = 9
iter = 13708, queue = 20581, heur = -9.0, depth = 9
iter = 13709, queue = 20584, heur = -9.0, depth = 9
iter = 13710, queue = 20587, heur = -9.0, depth = 9
iter = 13711, queue = 20588, heur = -9.0, depth = 9
iter = 13712, queue = 20589, heur = -9.0, depth = 9
iter = 13713, queue = 20592, heur = -9.0, depth = 9
iter = 13714, queue = 20593, heur = -9.0, depth = 9
iter = 13715, queue = 20596, heur = -9.0, depth = 9
iter = 13716, queue = 20598, heur = -9.0, depth = 10
iter = 13717, queue = 20599, heur = -9.0, depth = 10
iter = 13718, queue = 20602, heur = -9.0, depth = 9
iter = 13719, queue = 20605, heur = -9.0, depth = 10
iter = 13720, queue = 20606, heur = -9.0, depth = 9
iter = 13721, queue = 20607, heur = -9.0, depth = 9
iter = 13722, queue = 20608, heur = -9.0, depth = 9
iter = 13723, queue = 20609, heur = -9.0, depth = 9
iter = 13724, queue = 20612, heur = -9.0, depth = 10
iter = 13725, queue = 20613, heur = -9.0, depth = 12
iter = 13726, queue = 20616, heur = -9.0, depth = 10
iter = 13727, queue = 20617, heur = -9.0, depth = 9
iter = 13728, queue = 20616, heur = -9.0, depth = 10
iter = 13729, queue = 20617, heur = -9.0, depth = 9
iter = 13730, queue = 20617, heur = -9.0, depth = 10
iter = 13731, queue = 20618, heur = -9.0, depth = 9
iter = 13732, queue = 20621, heur = -9.0, depth = 12
iter = 13733, queue = 20622, heur = -9.0, depth = 10
iter = 13734, queue = 20623, heur = -9.0, depth = 10
iter = 13735, queue = 20624, heur = -9.0, depth = 12
iter = 13736, queue = 20625, heur = -9.0, depth = 10
iter = 13737, queue = 20626, heur = -9.0, depth = 9
iter = 13738, queue = 20627, heur = -9.0, depth = 9
iter = 13739, queue = 20629, heur = -9.0, depth = 12
iter = 13740, queue = 20632, heur = -9.0, depth = 9
iter = 13741, queue = 20634, heur = -9.0, depth = 9
iter = 13742, queue = 20636, heur = -9.0, depth = 12
iter = 13743, queue = 20637, heur = -9.0, depth = 9
iter = 13744, queue = 20638, heur = -9.0, depth = 9
iter = 13745, queue = 20639, heur = -9.0, depth = 11
```

```
iter = 13746, queue = 20642, heur = -9.0, depth = 9
iter = 13747, queue = 20642, heur = -9.0, depth = 12
iter = 13748, queue = 20644, heur = -9.0, depth = 9
iter = 13749, queue = 20645, heur = -9.0, depth = 9
iter = 13750, queue = 20648, heur = -9.0, depth = 12
iter = 13751, queue = 20651, heur = -9.0, depth = 9
iter = 13752, queue = 20652, heur = -9.0, depth = 9
iter = 13753, queue = 20655, heur = -9.0, depth = 9
iter = 13754, queue = 20658, heur = -9.0, depth = 9
iter = 13755, queue = 20660, heur = -9.0, depth = 9
iter = 13756, queue = 20663, heur = -9.0, depth = 9
iter = 13757, queue = 20664, heur = -9.0, depth = 9
iter = 13758, queue = 20665, heur = -9.0, depth = 9
iter = 13759, queue = 20666, heur = -9.0, depth = 9
iter = 13760, queue = 20668, heur = -9.0, depth = 9
iter = 13761, queue = 20670, heur = -9.0, depth = 9
iter = 13762, queue = 20672, heur = -9.0, depth = 9
iter = 13763, queue = 20673, heur = -9.0, depth = 9
iter = 13764, queue = 20672, heur = -9.0, depth = 9
iter = 13765, queue = 20674, heur = -9.0, depth = 9
iter = 13766, queue = 20675, heur = -9.0, depth = 9
iter = 13767, queue = 20676, heur = -9.0, depth = 9
iter = 13768, queue = 20675, heur = -9.0, depth = 9
iter = 13769, queue = 20677, heur = -9.0, depth = 11
iter = 13770, queue = 20677, heur = -9.0, depth = 9
iter = 13771, queue = 20676, heur = -9.0, depth = 9
iter = 13772, queue = 20677, heur = -9.0, depth = 9
iter = 13773, queue = 20680, heur = -9.0, depth = 9
iter = 13774, queue = 20679, heur = -9.0, depth = 9
iter = 13775, queue = 20682, heur = -9.0, depth = 9
iter = 13776, queue = 20684, heur = -9.0, depth = 11
iter = 13777, queue = 20686, heur = -9.0, depth = 9
iter = 13778, queue = 20687, heur = -9.0, depth = 9
iter = 13779, queue = 20686, heur = -9.0, depth = 9
iter = 13780, queue = 20685, heur = -9.0, depth = 9
iter = 13781, queue = 20688, heur = -9.0, depth = 9
iter = 13782, queue = 20688, heur = -9.0, depth = 9
iter = 13783, queue = 20689, heur = -9.0, depth = 9
iter = 13784, queue = 20690, heur = -9.0, depth = 9
iter = 13785, queue = 20689, heur = -9.0, depth = 9
iter = 13786, queue = 20691, heur = -9.0, depth = 9
iter = 13787, queue = 20694, heur = -9.0, depth = 10
iter = 13788, queue = 20695, heur = -9.0, depth = 9
iter = 13789, queue = 20697, heur = -9.0, depth = 9
iter = 13790, queue = 20698, heur = -9.0, depth = 9
iter = 13791, queue = 20699, heur = -9.0, depth = 9
iter = 13792, queue = 20702, heur = -9.0, depth = 9
iter = 13793, queue = 20704, heur = -9.0, depth = 9
iter = 13794, queue = 20707, heur = -9.0, depth = 9
iter = 13795, queue = 20707, heur = -9.0, depth = 9
iter = 13796, queue = 20710, heur = -9.0, depth = 9
iter = 13797, queue = 20711, heur = -9.0, depth = 9
iter = 13798, queue = 20712, heur = -9.0, depth = 10
iter = 13799, queue = 20712, heur = -9.0, depth = 9
iter = 13800, queue = 20713, heur = -9.0, depth = 11
iter = 13801, queue = 20716, heur = -9.0, depth = 11
iter = 13802, queue = 20719, heur = -9.0, depth = 9
iter = 13803, queue = 20722, heur = -9.0, depth = 9
iter = 13804, queue = 20722, heur = -9.0, depth = 11
```

```
iter = 13805, queue = 20725, heur = -9.0, depth = 11
iter = 13806, queue = 20727, heur = -9.0, depth = 9
iter = 13807, queue = 20726, heur = -9.0, depth = 11
iter = 13808, queue = 20729, heur = -9.0, depth = 11
iter = 13809, queue = 20732, heur = -9.0, depth = 9
iter = 13810, queue = 20735, heur = -9.0, depth = 9
iter = 13811, queue = 20736, heur = -9.0, depth = 9
iter = 13812, queue = 20738, heur = -9.0, depth = 9
iter = 13813, queue = 20740, heur = -9.0, depth = 10
iter = 13814, queue = 20743, heur = -9.0, depth = 9
iter = 13815, queue = 20744, heur = -9.0, depth = 10
iter = 13816, queue = 20747, heur = -9.0, depth = 9
iter = 13817, queue = 20749, heur = -9.0, depth = 9
iter = 13818, queue = 20749, heur = -9.0, depth = 9
iter = 13819, queue = 20750, heur = -9.0, depth = 10
iter = 13820, queue = 20753, heur = -9.0, depth = 10
iter = 13821, queue = 20756, heur = -9.0, depth = 9
iter = 13822, queue = 20759, heur = -9.0, depth = 9
iter = 13823, queue = 20760, heur = -9.0, depth = 9
iter = 13824, queue = 20763, heur = -9.0, depth = 9
iter = 13825, queue = 20764, heur = -9.0, depth = 9
iter = 13826, queue = 20765, heur = -9.0, depth = 9
iter = 13827, queue = 20766, heur = -9.0, depth = 9
iter = 13828, queue = 20769, heur = -9.0, depth = 9
iter = 13829, queue = 20772, heur = -9.0, depth = 9
iter = 13830, queue = 20775, heur = -9.0, depth = 9
iter = 13831, queue = 20777, heur = -9.0, depth = 9
iter = 13832, queue = 20778, heur = -9.0, depth = 9
iter = 13833, queue = 20779, heur = -9.0, depth = 9
iter = 13834, queue = 20780, heur = -9.0, depth = 9
iter = 13835, queue = 20783, heur = -9.0, depth = 9
iter = 13836, queue = 20784, heur = -9.0, depth = 9
iter = 13837, queue = 20785, heur = -9.0, depth = 9
iter = 13838, queue = 20784, heur = -9.0, depth = 9
iter = 13839, queue = 20785, heur = -9.0, depth = 9
iter = 13840, queue = 20786, heur = -9.0, depth = 9
iter = 13841, queue = 20787, heur = -9.0, depth = 9
iter = 13842, queue = 20787, heur = -9.0, depth = 9
iter = 13843, queue = 20789, heur = -9.0, depth = 9
iter = 13844, queue = 20790, heur = -9.0, depth = 9
iter = 13845, queue = 20792, heur = -9.0, depth = 9
iter = 13846, queue = 20794, heur = -9.0, depth = 9
iter = 13847, queue = 20795, heur = -9.0, depth = 9
iter = 13848, queue = 20798, heur = -9.0, depth = 10
iter = 13849, queue = 20799, heur = -9.0, depth = 9
iter = 13850, queue = 20800, heur = -9.0, depth = 9
iter = 13851, queue = 20803, heur = -9.0, depth = 9
iter = 13852, queue = 20803, heur = -9.0, depth = 9
iter = 13853, queue = 20804, heur = -9.0, depth = 9
iter = 13854, queue = 20805, heur = -9.0, depth = 9
iter = 13855, queue = 20806, heur = -9.0, depth = 9
iter = 13856, queue = 20805, heur = -9.0, depth = 10
iter = 13857, queue = 20808, heur = -9.0, depth = 9
iter = 13858, queue = 20809, heur = -9.0, depth = 9
iter = 13859, queue = 20810, heur = -9.0, depth = 9
iter = 13860, queue = 20811, heur = -9.0, depth = 9
iter = 13861, queue = 20813, heur = -9.0, depth = 9
iter = 13862, queue = 20816, heur = -9.0, depth = 9
iter = 13863, queue = 20818, heur = -9.0, depth = 9
```

```
iter = 13864, queue = 20821, heur = -9.0, depth = 9
iter = 13865, queue = 20822, heur = -9.0, depth = 9
iter = 13866, queue = 20825, heur = -9.0, depth = 9
iter = 13867, queue = 20826, heur = -9.0, depth = 9
iter = 13868, queue = 20829, heur = -9.0, depth = 9
iter = 13869, queue = 20828, heur = -9.0, depth = 9
iter = 13870, queue = 20830, heur = -9.0, depth = 9
iter = 13871, queue = 20832, heur = -9.0, depth = 9
iter = 13872, queue = 20833, heur = -9.0, depth = 9
iter = 13873, queue = 20835, heur = -9.0, depth = 10
iter = 13874, queue = 20836, heur = -9.0, depth = 9
iter = 13875, queue = 20837, heur = -9.0, depth = 9
iter = 13876, queue = 20838, heur = -9.0, depth = 9
iter = 13877, queue = 20839, heur = -9.0, depth = 9
iter = 13878, queue = 20840, heur = -9.0, depth = 9
iter = 13879, queue = 20843, heur = -9.0, depth = 9
iter = 13880, queue = 20846, heur = -9.0, depth = 9
iter = 13881, queue = 20848, heur = -9.0, depth = 9
iter = 13882, queue = 20851, heur = -9.0, depth = 9
iter = 13883, queue = 20850, heur = -9.0, depth = 9
iter = 13884, queue = 20852, heur = -9.0, depth = 9
iter = 13885, queue = 20853, heur = -9.0, depth = 9
iter = 13886, queue = 20855, heur = -9.0, depth = 9
iter = 13887, queue = 20854, heur = -9.0, depth = 9
iter = 13888, queue = 20856, heur = -9.0, depth = 9
iter = 13889, queue = 20855, heur = -9.0, depth = 10
iter = 13890, queue = 20856, heur = -9.0, depth = 9
iter = 13891, queue = 20857, heur = -9.0, depth = 9
iter = 13892, queue = 20859, heur = -9.0, depth = 9
iter = 13893, queue = 20862, heur = -9.0, depth = 9
iter = 13894, queue = 20865, heur = -9.0, depth = 9
iter = 13895, queue = 20866, heur = -9.0, depth = 9
iter = 13896, queue = 20867, heur = -9.0, depth = 10
iter = 13897, queue = 20867, heur = -9.0, depth = 9
iter = 13898, queue = 20869, heur = -9.0, depth = 9
iter = 13899, queue = 20872, heur = -9.0, depth = 9
iter = 13900, queue = 20874, heur = -9.0, depth = 9
iter = 13901, queue = 20876, heur = -9.0, depth = 9
iter = 13902, queue = 20877, heur = -9.0, depth = 9
iter = 13903, queue = 20879, heur = -9.0, depth = 10
iter = 13904, queue = 20882, heur = -9.0, depth = 9
iter = 13905, queue = 20881, heur = -9.0, depth = 9
iter = 13906, queue = 20882, heur = -9.0, depth = 9
iter = 13907, queue = 20883, heur = -9.0, depth = 9
iter = 13908, queue = 20882, heur = -9.0, depth = 9
iter = 13909, queue = 20885, heur = -9.0, depth = 9
iter = 13910, queue = 20887, heur = -9.0, depth = 9
iter = 13911, queue = 20889, heur = -9.0, depth = 9
iter = 13912, queue = 20890, heur = -9.0, depth = 9
iter = 13913, queue = 20891, heur = -9.0, depth = 9
iter = 13914, queue = 20892, heur = -9.0, depth = 9
iter = 13915, queue = 20894, heur = -9.0, depth = 9
iter = 13916, queue = 20895, heur = -9.0, depth = 9
iter = 13917, queue = 20897, heur = -9.0, depth = 9
iter = 13918, queue = 20898, heur = -9.0, depth = 9
iter = 13919, queue = 20899, heur = -9.0, depth = 12
iter = 13920, queue = 20902, heur = -9.0, depth = 10
iter = 13921, queue = 20905, heur = -9.0, depth = 10
iter = 13922, queue = 20904, heur = -9.0, depth = 9
```

```
iter = 13923, queue = 20905, heur = -9.0, depth = 9
iter = 13924, queue = 20906, heur = -9.0, depth = 9
iter = 13925, queue = 20909, heur = -9.0, depth = 10
iter = 13926, queue = 20912, heur = -9.0, depth = 10
iter = 13927, queue = 20913, heur = -9.0, depth = 9
iter = 13928, queue = 20916, heur = -9.0, depth = 9
iter = 13929, queue = 20918, heur = -9.0, depth = 9
iter = 13930, queue = 20918, heur = -9.0, depth = 9
iter = 13931, queue = 20919, heur = -9.0, depth = 9
iter = 13932, queue = 20922, heur = -9.0, depth = 9
iter = 13933, queue = 20924, heur = -9.0, depth = 9
iter = 13934, queue = 20925, heur = -9.0, depth = 9
iter = 13935, queue = 20927, heur = -9.0, depth = 9
iter = 13936, queue = 20928, heur = -9.0, depth = 9
iter = 13937, queue = 20929, heur = -9.0, depth = 9
iter = 13938, queue = 20929, heur = -9.0, depth = 9
iter = 13939, queue = 20932, heur = -9.0, depth = 9
iter = 13940, queue = 20931, heur = -9.0, depth = 9
iter = 13941, queue = 20931, heur = -9.0, depth = 9
iter = 13942, queue = 20933, heur = -9.0, depth = 9
iter = 13943, queue = 20934, heur = -9.0, depth = 9
iter = 13944, queue = 20937, heur = -9.0, depth = 9
iter = 13945, queue = 20938, heur = -9.0, depth = 9
iter = 13946, queue = 20938, heur = -9.0, depth = 9
iter = 13947, queue = 20941, heur = -9.0, depth = 9
iter = 13948, queue = 20942, heur = -9.0, depth = 9
iter = 13949, queue = 20941, heur = -9.0, depth = 9
iter = 13950, queue = 20944, heur = -9.0, depth = 9
iter = 13951, queue = 20947, heur = -9.0, depth = 9
iter = 13952, queue = 20948, heur = -9.0, depth = 9
iter = 13953, queue = 20949, heur = -9.0, depth = 9
iter = 13954, queue = 20950, heur = -9.0, depth = 9
iter = 13955, queue = 20953, heur = -9.0, depth = 10
iter = 13956, queue = 20956, heur = -9.0, depth = 10
iter = 13957, queue = 20956, heur = -9.0, depth = 9
iter = 13958, queue = 20957, heur = -9.0, depth = 9
iter = 13959, queue = 20960, heur = -9.0, depth = 9
iter = 13960, queue = 20963, heur = -9.0, depth = 10
iter = 13961, queue = 20966, heur = -9.0, depth = 9
iter = 13962, queue = 20969, heur = -9.0, depth = 13
iter = 13963, queue = 20970, heur = -9.0, depth = 9
iter = 13964, queue = 20973, heur = -9.0, depth = 9
iter = 13965, queue = 20972, heur = -9.0, depth = 9
iter = 13966, queue = 20972, heur = -9.0, depth = 9
iter = 13967, queue = 20973, heur = -9.0, depth = 9
iter = 13968, queue = 20973, heur = -9.0, depth = 9
iter = 13969, queue = 20974, heur = -9.0, depth = 9
iter = 13970, queue = 20977, heur = -9.0, depth = 9
iter = 13971, queue = 20980, heur = -9.0, depth = 9
iter = 13972, queue = 20980, heur = -9.0, depth = 9
iter = 13973, queue = 20983, heur = -9.0, depth = 9
iter = 13974, queue = 20986, heur = -9.0, depth = 9
iter = 13975, queue = 20989, heur = -9.0, depth = 9
iter = 13976, queue = 20988, heur = -9.0, depth = 9
iter = 13977, queue = 20991, heur = -9.0, depth = 13
iter = 13978, queue = 20992, heur = -9.0, depth = 9
iter = 13979, queue = 20993, heur = -9.0, depth = 9
iter = 13980, queue = 20995, heur = -9.0, depth = 9
iter = 13981, queue = 20998, heur = -9.0, depth = 13
```

```
iter = 13982, queue = 20998, heur = -9.0, depth = 9
iter = 13983, queue = 20997, heur = -9.0, depth = 9
iter = 13984, queue = 20998, heur = -9.0, depth = 13
iter = 13985, queue = 20999, heur = -9.0, depth = 9
iter = 13986, queue = 20999, heur = -9.0, depth = 9
iter = 13987, queue = 21000, heur = -9.0, depth = 9
iter = 13988, queue = 21000, heur = -9.0, depth = 9
iter = 13989, queue = 20999, heur = -9.0, depth = 9
iter = 13990, queue = 21000, heur = -9.0, depth = 10
iter = 13991, queue = 21003, heur = -9.0, depth = 9
iter = 13992, queue = 21006, heur = -9.0, depth = 9
iter = 13993, queue = 21008, heur = -9.0, depth = 9
iter = 13994, queue = 21008, heur = -9.0, depth = 10
iter = 13995, queue = 21010, heur = -9.0, depth = 9
iter = 13996, queue = 21013, heur = -9.0, depth = 9
iter = 13997, queue = 21015, heur = -9.0, depth = 10
iter = 13998, queue = 21014, heur = -9.0, depth = 9
iter = 13999, queue = 21015, heur = -9.0, depth = 12
iter = 14000, queue = 21018, heur = -9.0, depth = 9
iter = 14001, queue = 21019, heur = -9.0, depth = 9
iter = 14002, queue = 21018, heur = -9.0, depth = 9
iter = 14003, queue = 21021, heur = -9.0, depth = 9
iter = 14004, queue = 21024, heur = -9.0, depth = 9
iter = 14005, queue = 21025, heur = -9.0, depth = 9
iter = 14006, queue = 21026, heur = -9.0, depth = 9
iter = 14007, queue = 21027, heur = -9.0, depth = 9
iter = 14008, queue = 21029, heur = -9.0, depth = 9
iter = 14009, queue = 21031, heur = -9.0, depth = 10
iter = 14010, queue = 21032, heur = -9.0, depth = 9
iter = 14011, queue = 21032, heur = -9.0, depth = 9
iter = 14012, queue = 21033, heur = -9.0, depth = 9
iter = 14013, queue = 21036, heur = -9.0, depth = 10
iter = 14014, queue = 21037, heur = -9.0, depth = 9
iter = 14015, queue = 21038, heur = -9.0, depth = 9
iter = 14016, queue = 21038, heur = -9.0, depth = 10
iter = 14017, queue = 21039, heur = -9.0, depth = 9
iter = 14018, queue = 21040, heur = -9.0, depth = 9
iter = 14019, queue = 21043, heur = -9.0, depth = 9
iter = 14020, queue = 21045, heur = -9.0, depth = 9
iter = 14021, queue = 21046, heur = -9.0, depth = 9
iter = 14022, queue = 21046, heur = -9.0, depth = 10
iter = 14023, queue = 21049, heur = -9.0, depth = 9
iter = 14024, queue = 21052, heur = -9.0, depth = 9
iter = 14025, queue = 21055, heur = -9.0, depth = 9
iter = 14026, queue = 21054, heur = -9.0, depth = 9
iter = 14027, queue = 21055, heur = -9.0, depth = 9
iter = 14028, queue = 21055, heur = -9.0, depth = 9
iter = 14029, queue = 21056, heur = -9.0, depth = 9
iter = 14030, queue = 21057, heur = -9.0, depth = 9
iter = 14031, queue = 21058, heur = -9.0, depth = 9
iter = 14032, queue = 21059, heur = -9.0, depth = 9
iter = 14033, queue = 21058, heur = -9.0, depth = 9
iter = 14034, queue = 21060, heur = -9.0, depth = 9
iter = 14035, queue = 21061, heur = -9.0, depth = 9
iter = 14036, queue = 21062, heur = -9.0, depth = 9
iter = 14037, queue = 21063, heur = -9.0, depth = 13
iter = 14038, queue = 21064, heur = -9.0, depth = 9
iter = 14039, queue = 21064, heur = -9.0, depth = 9
iter = 14040, queue = 21067, heur = -9.0, depth = 9
```

```
iter = 14041, queue = 21068, heur = -9.0, depth = 9
iter = 14042, queue = 21069, heur = -9.0, depth = 9
iter = 14043, queue = 21068, heur = -9.0, depth = 10
iter = 14044, queue = 21071, heur = -9.0, depth = 10
iter = 14045, queue = 21074, heur = -9.0, depth = 9
iter = 14046, queue = 21074, heur = -9.0, depth = 9
iter = 14047, queue = 21077, heur = -9.0, depth = 9
iter = 14048, queue = 21079, heur = -9.0, depth = 9
iter = 14049, queue = 21080, heur = -9.0, depth = 10
iter = 14050, queue = 21083, heur = -9.0, depth = 10
iter = 14051, queue = 21086, heur = -9.0, depth = 9
iter = 14052, queue = 21087, heur = -9.0, depth = 9
iter = 14053, queue = 21088, heur = -9.0, depth = 9
iter = 14054, queue = 21087, heur = -9.0, depth = 9
iter = 14055, queue = 21089, heur = -9.0, depth = 9
iter = 14056, queue = 21089, heur = -9.0, depth = 9
iter = 14057, queue = 21089, heur = -9.0, depth = 10
iter = 14058, queue = 21092, heur = -9.0, depth = 9
iter = 14059, queue = 21094, heur = -9.0, depth = 9
iter = 14060, queue = 21093, heur = -9.0, depth = 9
iter = 14061, queue = 21095, heur = -9.0, depth = 9
iter = 14062, queue = 21096, heur = -9.0, depth = 9
iter = 14063, queue = 21096, heur = -9.0, depth = 9
iter = 14064, queue = 21097, heur = -9.0, depth = 9
iter = 14065, queue = 21098, heur = -9.0, depth = 9
iter = 14066, queue = 21099, heur = -9.0, depth = 9
iter = 14067, queue = 21098, heur = -9.0, depth = 9
iter = 14068, queue = 21099, heur = -9.0, depth = 9
iter = 14069, queue = 21102, heur = -9.0, depth = 10
iter = 14070, queue = 21104, heur = -9.0, depth = 9
iter = 14071, queue = 21105, heur = -9.0, depth = 10
iter = 14072, queue = 21108, heur = -9.0, depth = 9
iter = 14073, queue = 21109, heur = -9.0, depth = 9
iter = 14074, queue = 21109, heur = -9.0, depth = 10
iter = 14075, queue = 21110, heur = -9.0, depth = 9
iter = 14076, queue = 21112, heur = -9.0, depth = 9
iter = 14077, queue = 21115, heur = -9.0, depth = 9
iter = 14078, queue = 21117, heur = -9.0, depth = 10
iter = 14079, queue = 21118, heur = -9.0, depth = 9
iter = 14080, queue = 21121, heur = -9.0, depth = 9
iter = 14081, queue = 21124, heur = -9.0, depth = 9
iter = 14082, queue = 21127, heur = -9.0, depth = 9
iter = 14083, queue = 21128, heur = -9.0, depth = 9
iter = 14084, queue = 21131, heur = -9.0, depth = 9
iter = 14085, queue = 21130, heur = -9.0, depth = 9
iter = 14086, queue = 21129, heur = -9.0, depth = 9
iter = 14087, queue = 21130, heur = -9.0, depth = 9
iter = 14088, queue = 21130, heur = -9.0, depth = 9
iter = 14089, queue = 21133, heur = -9.0, depth = 9
iter = 14090, queue = 21136, heur = -9.0, depth = 9
iter = 14091, queue = 21138, heur = -9.0, depth = 13
iter = 14092, queue = 21139, heur = -9.0, depth = 13
iter = 14093, queue = 21139, heur = -9.0, depth = 9
iter = 14094, queue = 21140, heur = -9.0, depth = 10
iter = 14095, queue = 21141, heur = -9.0, depth = 9
iter = 14096, queue = 21142, heur = -9.0, depth = 9
iter = 14097, queue = 21145, heur = -9.0, depth = 9
iter = 14098, queue = 21145, heur = -9.0, depth = 9
iter = 14099, queue = 21146, heur = -9.0, depth = 9
```

```
iter = 14100, queue = 21146, heur = -9.0, depth = 9
iter = 14101, queue = 21147, heur = -9.0, depth = 9
iter = 14102, queue = 21147, heur = -9.0, depth = 9
iter = 14103, queue = 21148, heur = -9.0, depth = 11
iter = 14104, queue = 21151, heur = -9.0, depth = 11
iter = 14105, queue = 21154, heur = -9.0, depth = 10
iter = 14106, queue = 21155, heur = -9.0, depth = 10
iter = 14107, queue = 21158, heur = -9.0, depth = 10
iter = 14108, queue = 21161, heur = -9.0, depth = 9
iter = 14109, queue = 21162, heur = -9.0, depth = 9
iter = 14110, queue = 21163, heur = -9.0, depth = 9
iter = 14111, queue = 21165, heur = -9.0, depth = 10
iter = 14112, queue = 21167, heur = -9.0, depth = 10
iter = 14113, queue = 21170, heur = -9.0, depth = 9
iter = 14114, queue = 21173, heur = -9.0, depth = 9
iter = 14115, queue = 21176, heur = -9.0, depth = 9
iter = 14116, queue = 21175, heur = -9.0, depth = 9
iter = 14117, queue = 21178, heur = -9.0, depth = 9
iter = 14118, queue = 21179, heur = -9.0, depth = 9
iter = 14119, queue = 21180, heur = -9.0, depth = 9
iter = 14120, queue = 21181, heur = -9.0, depth = 9
iter = 14121, queue = 21182, heur = -9.0, depth = 9
iter = 14122, queue = 21181, heur = -9.0, depth = 9
iter = 14123, queue = 21182, heur = -9.0, depth = 9
iter = 14124, queue = 21184, heur = -9.0, depth = 9
iter = 14125, queue = 21187, heur = -9.0, depth = 9
iter = 14126, queue = 21187, heur = -9.0, depth = 9
iter = 14127, queue = 21188, heur = -9.0, depth = 9
iter = 14128, queue = 21191, heur = -9.0, depth = 9
iter = 14129, queue = 21194, heur = -9.0, depth = 10
iter = 14130, queue = 21194, heur = -9.0, depth = 9
iter = 14131, queue = 21195, heur = -9.0, depth = 9
iter = 14132, queue = 21198, heur = -9.0, depth = 10
iter = 14133, queue = 21199, heur = -9.0, depth = 9
iter = 14134, queue = 21200, heur = -9.0, depth = 10
iter = 14135, queue = 21199, heur = -9.0, depth = 9
iter = 14136, queue = 21202, heur = -9.0, depth = 9
iter = 14137, queue = 21203, heur = -9.0, depth = 10
iter = 14138, queue = 21202, heur = -9.0, depth = 9
iter = 14139, queue = 21203, heur = -9.0, depth = 9
iter = 14140, queue = 21204, heur = -9.0, depth = 10
iter = 14141, queue = 21204, heur = -9.0, depth = 9
iter = 14142, queue = 21206, heur = -9.0, depth = 9
iter = 14143, queue = 21209, heur = -9.0, depth = 9
iter = 14144, queue = 21211, heur = -9.0, depth = 9
iter = 14145, queue = 21211, heur = -9.0, depth = 9
iter = 14146, queue = 21214, heur = -9.0, depth = 9
iter = 14147, queue = 21217, heur = -9.0, depth = 9
iter = 14148, queue = 21217, heur = -9.0, depth = 9
iter = 14149, queue = 21218, heur = -9.0, depth = 10
iter = 14150, queue = 21221, heur = -9.0, depth = 9
iter = 14151, queue = 21222, heur = -9.0, depth = 9
iter = 14152, queue = 21223, heur = -9.0, depth = 9
iter = 14153, queue = 21223, heur = -9.0, depth = 9
iter = 14154, queue = 21225, heur = -9.0, depth = 9
iter = 14155, queue = 21226, heur = -9.0, depth = 9
iter = 14156, queue = 21229, heur = -9.0, depth = 10
iter = 14157, queue = 21229, heur = -9.0, depth = 9
iter = 14158, queue = 21231, heur = -9.0, depth = 9
```

```
iter = 14159, queue = 21234, heur = -9.0, depth = 9
iter = 14160, queue = 21237, heur = -9.0, depth = 10
iter = 14161, queue = 21238, heur = -9.0, depth = 9
iter = 14162, queue = 21239, heur = -9.0, depth = 9
iter = 14163, queue = 21241, heur = -9.0, depth = 10
iter = 14164, queue = 21244, heur = -9.0, depth = 9
iter = 14165, queue = 21245, heur = -9.0, depth = 10
iter = 14166, queue = 21246, heur = -9.0, depth = 9
iter = 14167, queue = 21249, heur = -9.0, depth = 9
iter = 14168, queue = 21250, heur = -9.0, depth = 9
iter = 14169, queue = 21251, heur = -9.0, depth = 9
iter = 14170, queue = 21252, heur = -9.0, depth = 9
iter = 14171, queue = 21253, heur = -9.0, depth = 9
iter = 14172, queue = 21253, heur = -9.0, depth = 10
iter = 14173, queue = 21253, heur = -9.0, depth = 9
iter = 14174, queue = 21255, heur = -9.0, depth = 10
iter = 14175, queue = 21256, heur = -9.0, depth = 10
iter = 14176, queue = 21259, heur = -9.0, depth = 9
iter = 14177, queue = 21261, heur = -9.0, depth = 9
iter = 14178, queue = 21263, heur = -9.0, depth = 9
iter = 14179, queue = 21263, heur = -9.0, depth = 9
iter = 14180, queue = 21266, heur = -9.0, depth = 9
iter = 14181, queue = 21266, heur = -9.0, depth = 9
iter = 14182, queue = 21268, heur = -9.0, depth = 10
iter = 14183, queue = 21271, heur = -9.0, depth = 9
iter = 14184, queue = 21272, heur = -9.0, depth = 10
iter = 14185, queue = 21272, heur = -9.0, depth = 9
iter = 14186, queue = 21273, heur = -9.0, depth = 9
iter = 14187, queue = 21275, heur = -9.0, depth = 10
iter = 14188, queue = 21276, heur = -9.0, depth = 9
iter = 14189, queue = 21277, heur = -9.0, depth = 9
iter = 14190, queue = 21277, heur = -9.0, depth = 9
iter = 14191, queue = 21278, heur = -9.0, depth = 9
iter = 14192, queue = 21281, heur = -9.0, depth = 9
iter = 14193, queue = 21282, heur = -9.0, depth = 9
iter = 14194, queue = 21281, heur = -9.0, depth = 9
iter = 14195, queue = 21282, heur = -9.0, depth = 9
iter = 14196, queue = 21284, heur = -9.0, depth = 9
iter = 14197, queue = 21285, heur = -9.0, depth = 9
iter = 14198, queue = 21288, heur = -9.0, depth = 9
iter = 14199, queue = 21289, heur = -9.0, depth = 9
iter = 14200, queue = 21292, heur = -9.0, depth = 9
iter = 14201, queue = 21291, heur = -9.0, depth = 9
iter = 14202, queue = 21290, heur = -9.0, depth = 9
iter = 14203, queue = 21291, heur = -9.0, depth = 9
iter = 14204, queue = 21293, heur = -9.0, depth = 9
iter = 14205, queue = 21294, heur = -9.0, depth = 9
iter = 14206, queue = 21297, heur = -9.0, depth = 9
iter = 14207, queue = 21298, heur = -9.0, depth = 9
iter = 14208, queue = 21301, heur = -9.0, depth = 9
iter = 14209, queue = 21304, heur = -9.0, depth = 9
iter = 14210, queue = 21305, heur = -9.0, depth = 9
iter = 14211, queue = 21305, heur = -9.0, depth = 9
iter = 14212, queue = 21306, heur = -9.0, depth = 9
iter = 14213, queue = 21309, heur = -9.0, depth = 9
iter = 14214, queue = 21308, heur = -9.0, depth = 9
iter = 14215, queue = 21309, heur = -9.0, depth = 9
iter = 14216, queue = 21310, heur = -9.0, depth = 9
iter = 14217, queue = 21311, heur = -9.0, depth = 9
```

```
iter = 14218, queue = 21312, heur = -9.0, depth = 9
iter = 14219, queue = 21315, heur = -9.0, depth = 9
iter = 14220, queue = 21316, heur = -9.0, depth = 9
iter = 14221, queue = 21317, heur = -9.0, depth = 9
iter = 14222, queue = 21318, heur = -9.0, depth = 9
iter = 14223, queue = 21320, heur = -9.0, depth = 9
iter = 14224, queue = 21321, heur = -9.0, depth = 9
iter = 14225, queue = 21320, heur = -9.0, depth = 9
iter = 14226, queue = 21320, heur = -9.0, depth = 9
iter = 14227, queue = 21321, heur = -9.0, depth = 9
iter = 14228, queue = 21322, heur = -9.0, depth = 9
iter = 14229, queue = 21323, heur = -9.0, depth = 9
iter = 14230, queue = 21324, heur = -9.0, depth = 9
iter = 14231, queue = 21325, heur = -9.0, depth = 9
iter = 14232, queue = 21326, heur = -9.0, depth = 9
iter = 14233, queue = 21329, heur = -9.0, depth = 9
iter = 14234, queue = 21330, heur = -9.0, depth = 9
iter = 14235, queue = 21332, heur = -9.0, depth = 9
iter = 14236, queue = 21333, heur = -9.0, depth = 9
iter = 14237, queue = 21334, heur = -9.0, depth = 9
iter = 14238, queue = 21335, heur = -9.0, depth = 9
iter = 14239, queue = 21336, heur = -9.0, depth = 9
iter = 14240, queue = 21337, heur = -9.0, depth = 9
iter = 14241, queue = 21340, heur = -9.0, depth = 9
iter = 14242, queue = 21343, heur = -9.0, depth = 9
iter = 14243, queue = 21344, heur = -9.0, depth = 9
iter = 14244, queue = 21347, heur = -9.0, depth = 9
iter = 14245, queue = 21347, heur = -9.0, depth = 10
iter = 14246, queue = 21348, heur = -9.0, depth = 9
iter = 14247, queue = 21348, heur = -9.0, depth = 9
iter = 14248, queue = 21349, heur = -9.0, depth = 9
iter = 14249, queue = 21352, heur = -9.0, depth = 9
iter = 14250, queue = 21353, heur = -9.0, depth = 9
iter = 14251, queue = 21354, heur = -9.0, depth = 10
iter = 14252, queue = 21355, heur = -9.0, depth = 9
iter = 14253, queue = 21356, heur = -9.0, depth = 9
iter = 14254, queue = 21357, heur = -9.0, depth = 9
iter = 14255, queue = 21357, heur = -9.0, depth = 9
iter = 14256, queue = 21357, heur = -9.0, depth = 9
iter = 14257, queue = 21358, heur = -9.0, depth = 9
iter = 14258, queue = 21359, heur = -9.0, depth = 9
iter = 14259, queue = 21360, heur = -9.0, depth = 9
iter = 14260, queue = 21363, heur = -9.0, depth = 9
iter = 14261, queue = 21365, heur = -9.0, depth = 9
iter = 14262, queue = 21364, heur = -9.0, depth = 9
iter = 14263, queue = 21365, heur = -9.0, depth = 9
iter = 14264, queue = 21364, heur = -9.0, depth = 9
iter = 14265, queue = 21365, heur = -9.0, depth = 9
iter = 14266, queue = 21366, heur = -9.0, depth = 9
iter = 14267, queue = 21367, heur = -9.0, depth = 9
iter = 14268, queue = 21369, heur = -9.0, depth = 9
iter = 14269, queue = 21372, heur = -9.0, depth = 9
iter = 14270, queue = 21373, heur = -9.0, depth = 9
iter = 14271, queue = 21376, heur = -9.0, depth = 9
iter = 14272, queue = 21378, heur = -9.0, depth = 9
iter = 14273, queue = 21380, heur = -9.0, depth = 9
iter = 14274, queue = 21381, heur = -9.0, depth = 9
iter = 14275, queue = 21380, heur = -9.0, depth = 9
iter = 14276, queue = 21383, heur = -9.0, depth = 9
```

```
iter = 14277, queue = 21386, heur = -9.0, depth = 9
iter = 14278, queue = 21387, heur = -9.0, depth = 9
iter = 14279, queue = 21388, heur = -9.0, depth = 9
iter = 14280, queue = 21389, heur = -9.0, depth = 9
iter = 14281, queue = 21390, heur = -9.0, depth = 9
iter = 14282, queue = 21391, heur = -9.0, depth = 9
iter = 14283, queue = 21393, heur = -9.0, depth = 9
iter = 14284, queue = 21394, heur = -9.0, depth = 9
iter = 14285, queue = 21395, heur = -9.0, depth = 9
iter = 14286, queue = 21398, heur = -9.0, depth = 9
iter = 14287, queue = 21398, heur = -9.0, depth = 9
iter = 14288, queue = 21400, heur = -9.0, depth = 9
iter = 14289, queue = 21400, heur = -9.0, depth = 9
iter = 14290, queue = 21401, heur = -9.0, depth = 9
iter = 14291, queue = 21401, heur = -9.0, depth = 9
iter = 14292, queue = 21403, heur = -9.0, depth = 9
iter = 14293, queue = 21405, heur = -9.0, depth = 9
iter = 14294, queue = 21406, heur = -9.0, depth = 9
iter = 14295, queue = 21405, heur = -9.0, depth = 9
iter = 14296, queue = 21407, heur = -9.0, depth = 9
iter = 14297, queue = 21408, heur = -9.0, depth = 9
iter = 14298, queue = 21407, heur = -9.0, depth = 9
iter = 14299, queue = 21409, heur = -9.0, depth = 10
iter = 14300, queue = 21411, heur = -9.0, depth = 9
iter = 14301, queue = 21410, heur = -9.0, depth = 9
iter = 14302, queue = 21411, heur = -9.0, depth = 9
iter = 14303, queue = 21412, heur = -9.0, depth = 9
iter = 14304, queue = 21414, heur = -9.0, depth = 9
iter = 14305, queue = 21417, heur = -9.0, depth = 9
iter = 14306, queue = 21417, heur = -9.0, depth = 9
iter = 14307, queue = 21418, heur = -9.0, depth = 9
iter = 14308, queue = 21419, heur = -9.0, depth = 9
iter = 14309, queue = 21418, heur = -9.0, depth = 9
iter = 14310, queue = 21420, heur = -9.0, depth = 9
iter = 14311, queue = 21422, heur = -9.0, depth = 9
iter = 14312, queue = 21421, heur = -9.0, depth = 9
iter = 14313, queue = 21424, heur = -9.0, depth = 9
iter = 14314, queue = 21424, heur = -9.0, depth = 10
iter = 14315, queue = 21425, heur = -9.0, depth = 9
iter = 14316, queue = 21426, heur = -9.0, depth = 9
iter = 14317, queue = 21428, heur = -9.0, depth = 9
iter = 14318, queue = 21427, heur = -9.0, depth = 9
iter = 14319, queue = 21430, heur = -9.0, depth = 9
iter = 14320, queue = 21431, heur = -9.0, depth = 9
iter = 14321, queue = 21432, heur = -9.0, depth = 9
iter = 14322, queue = 21432, heur = -9.0, depth = 9
iter = 14323, queue = 21433, heur = -9.0, depth = 9
iter = 14324, queue = 21434, heur = -9.0, depth = 9
iter = 14325, queue = 21437, heur = -9.0, depth = 9
iter = 14326, queue = 21440, heur = -9.0, depth = 9
iter = 14327, queue = 21442, heur = -9.0, depth = 9
iter = 14328, queue = 21443, heur = -9.0, depth = 9
iter = 14329, queue = 21443, heur = -9.0, depth = 9
iter = 14330, queue = 21443, heur = -9.0, depth = 9
iter = 14331, queue = 21444, heur = -9.0, depth = 9
iter = 14332, queue = 21447, heur = -9.0, depth = 9
iter = 14333, queue = 21446, heur = -9.0, depth = 9
iter = 14334, queue = 21449, heur = -9.0, depth = 9
iter = 14335, queue = 21452, heur = -9.0, depth = 9
```

```
iter = 14336, queue = 21452, heur = -9.0, depth = 9
iter = 14337, queue = 21453, heur = -9.0, depth = 9
iter = 14338, queue = 21454, heur = -9.0, depth = 9
iter = 14339, queue = 21455, heur = -9.0, depth = 9
iter = 14340, queue = 21456, heur = -9.0, depth = 9
iter = 14341, queue = 21459, heur = -9.0, depth = 9
iter = 14342, queue = 21460, heur = -9.0, depth = 9
iter = 14343, queue = 21461, heur = -9.0, depth = 9
iter = 14344, queue = 21464, heur = -9.0, depth = 9
iter = 14345, queue = 21466, heur = -9.0, depth = 9
iter = 14346, queue = 21469, heur = -9.0, depth = 9
iter = 14347, queue = 21471, heur = -9.0, depth = 9
iter = 14348, queue = 21472, heur = -9.0, depth = 9
iter = 14349, queue = 21473, heur = -9.0, depth = 9
iter = 14350, queue = 21476, heur = -9.0, depth = 9
iter = 14351, queue = 21478, heur = -9.0, depth = 9
iter = 14352, queue = 21481, heur = -9.0, depth = 9
iter = 14353, queue = 21482, heur = -9.0, depth = 9
iter = 14354, queue = 21483, heur = -9.0, depth = 9
iter = 14355, queue = 21485, heur = -9.0, depth = 9
iter = 14356, queue = 21487, heur = -9.0, depth = 9
iter = 14357, queue = 21490, heur = -9.0, depth = 9
iter = 14358, queue = 21490, heur = -9.0, depth = 9
iter = 14359, queue = 21491, heur = -9.0, depth = 9
iter = 14360, queue = 21492, heur = -9.0, depth = 9
iter = 14361, queue = 21493, heur = -9.0, depth = 9
iter = 14362, queue = 21494, heur = -9.0, depth = 9
iter = 14363, queue = 21495, heur = -9.0, depth = 9
iter = 14364, queue = 21494, heur = -9.0, depth = 10
iter = 14365, queue = 21493, heur = -9.0, depth = 9
iter = 14366, queue = 21495, heur = -9.0, depth = 9
iter = 14367, queue = 21494, heur = -9.0, depth = 9
iter = 14368, queue = 21496, heur = -9.0, depth = 9
iter = 14369, queue = 21499, heur = -9.0, depth = 9
iter = 14370, queue = 21501, heur = -9.0, depth = 9
iter = 14371, queue = 21502, heur = -9.0, depth = 9
iter = 14372, queue = 21502, heur = -9.0, depth = 9
iter = 14373, queue = 21504, heur = -9.0, depth = 9
iter = 14374, queue = 21507, heur = -9.0, depth = 9
iter = 14375, queue = 21510, heur = -9.0, depth = 9
iter = 14376, queue = 21511, heur = -9.0, depth = 9
iter = 14377, queue = 21514, heur = -9.0, depth = 9
iter = 14378, queue = 21513, heur = -9.0, depth = 9
iter = 14379, queue = 21515, heur = -9.0, depth = 11
iter = 14380, queue = 21516, heur = -9.0, depth = 9
iter = 14381, queue = 21515, heur = -9.0, depth = 9
iter = 14382, queue = 21518, heur = -9.0, depth = 9
iter = 14383, queue = 21517, heur = -9.0, depth = 9
iter = 14384, queue = 21519, heur = -9.0, depth = 9
iter = 14385, queue = 21522, heur = -9.0, depth = 11
iter = 14386, queue = 21523, heur = -9.0, depth = 9
iter = 14387, queue = 21524, heur = -9.0, depth = 11
iter = 14388, queue = 21525, heur = -9.0, depth = 9
iter = 14389, queue = 21526, heur = -9.0, depth = 9
iter = 14390, queue = 21529, heur = -9.0, depth = 9
iter = 14391, queue = 21530, heur = -9.0, depth = 9
iter = 14392, queue = 21533, heur = -9.0, depth = 9
iter = 14393, queue = 21535, heur = -9.0, depth = 9
iter = 14394, queue = 21534, heur = -9.0, depth = 9
```

```
iter = 14395, queue = 21537, heur = -9.0, depth = 9
iter = 14396, queue = 21538, heur = -9.0, depth = 9
iter = 14397, queue = 21539, heur = -9.0, depth = 9
iter = 14398, queue = 21540, heur = -9.0, depth = 9
iter = 14399, queue = 21539, heur = -9.0, depth = 9
iter = 14400, queue = 21542, heur = -9.0, depth = 9
iter = 14401, queue = 21543, heur = -9.0, depth = 10
iter = 14402, queue = 21544, heur = -9.0, depth = 9
iter = 14403, queue = 21547, heur = -9.0, depth = 9
iter = 14404, queue = 21549, heur = -9.0, depth = 9
iter = 14405, queue = 21549, heur = -9.0, depth = 9
iter = 14406, queue = 21552, heur = -9.0, depth = 9
iter = 14407, queue = 21554, heur = -9.0, depth = 9
iter = 14408, queue = 21557, heur = -9.0, depth = 9
iter = 14409, queue = 21558, heur = -9.0, depth = 9
iter = 14410, queue = 21561, heur = -9.0, depth = 10
iter = 14411, queue = 21563, heur = -9.0, depth = 9
iter = 14412, queue = 21564, heur = -9.0, depth = 9
iter = 14413, queue = 21567, heur = -9.0, depth = 9
iter = 14414, queue = 21567, heur = -9.0, depth = 9
iter = 14415, queue = 21568, heur = -9.0, depth = 9
iter = 14416, queue = 21567, heur = -9.0, depth = 9
iter = 14417, queue = 21568, heur = -9.0, depth = 9
iter = 14418, queue = 21568, heur = -9.0, depth = 9
iter = 14419, queue = 21569, heur = -9.0, depth = 9
iter = 14420, queue = 21569, heur = -9.0, depth = 9
iter = 14421, queue = 21571, heur = -9.0, depth = 9
iter = 14422, queue = 21574, heur = -9.0, depth = 9
iter = 14423, queue = 21577, heur = -9.0, depth = 9
iter = 14424, queue = 21579, heur = -9.0, depth = 9
iter = 14425, queue = 21580, heur = -9.0, depth = 9
iter = 14426, queue = 21581, heur = -9.0, depth = 9
iter = 14427, queue = 21580, heur = -9.0, depth = 9
iter = 14428, queue = 21583, heur = -9.0, depth = 9
iter = 14429, queue = 21584, heur = -9.0, depth = 9
iter = 14430, queue = 21585, heur = -9.0, depth = 9
iter = 14431, queue = 21588, heur = -9.0, depth = 9
iter = 14432, queue = 21589, heur = -9.0, depth = 9
iter = 14433, queue = 21588, heur = -9.0, depth = 9
iter = 14434, queue = 21588, heur = -9.0, depth = 9
iter = 14435, queue = 21591, heur = -9.0, depth = 9
iter = 14436, queue = 21592, heur = -9.0, depth = 10
iter = 14437, queue = 21593, heur = -9.0, depth = 9
iter = 14438, queue = 21594, heur = -9.0, depth = 9
iter = 14439, queue = 21595, heur = -9.0, depth = 9
iter = 14440, queue = 21595, heur = -9.0, depth = 9
iter = 14441, queue = 21596, heur = -9.0, depth = 9
iter = 14442, queue = 21598, heur = -9.0, depth = 9
iter = 14443, queue = 21599, heur = -9.0, depth = 9
iter = 14444, queue = 21600, heur = -9.0, depth = 9
iter = 14445, queue = 21601, heur = -9.0, depth = 9
iter = 14446, queue = 21604, heur = -9.0, depth = 9
iter = 14447, queue = 21605, heur = -9.0, depth = 9
iter = 14448, queue = 21606, heur = -9.0, depth = 9
iter = 14449, queue = 21609, heur = -9.0, depth = 9
iter = 14450, queue = 21610, heur = -9.0, depth = 9
iter = 14451, queue = 21611, heur = -9.0, depth = 9
iter = 14452, queue = 21612, heur = -9.0, depth = 9
iter = 14453, queue = 21614, heur = -9.0, depth = 9
```

```
iter = 14454, queue = 21617, heur = -9.0, depth = 9
iter = 14455, queue = 21619, heur = -9.0, depth = 9
iter = 14456, queue = 21620, heur = -9.0, depth = 9
iter = 14457, queue = 21621, heur = -9.0, depth = 9
iter = 14458, queue = 21622, heur = -9.0, depth = 9
iter = 14459, queue = 21625, heur = -9.0, depth = 9
iter = 14460, queue = 21624, heur = -9.0, depth = 9
iter = 14461, queue = 21625, heur = -9.0, depth = 9
iter = 14462, queue = 21625, heur = -9.0, depth = 9
iter = 14463, queue = 21625, heur = -9.0, depth = 9
iter = 14464, queue = 21624, heur = -9.0, depth = 9
iter = 14465, queue = 21627, heur = -9.0, depth = 9
iter = 14466, queue = 21629, heur = -9.0, depth = 9
iter = 14467, queue = 21631, heur = -9.0, depth = 9
iter = 14468, queue = 21634, heur = -9.0, depth = 9
iter = 14469, queue = 21633, heur = -9.0, depth = 9
iter = 14470, queue = 21633, heur = -9.0, depth = 9
iter = 14471, queue = 21635, heur = -9.0, depth = 9
iter = 14472, queue = 21636, heur = -9.0, depth = 9
iter = 14473, queue = 21638, heur = -9.0, depth = 9
iter = 14474, queue = 21639, heur = -9.0, depth = 12
iter = 14475, queue = 21640, heur = -9.0, depth = 11
iter = 14476, queue = 21641, heur = -9.0, depth = 11
iter = 14477, queue = 21643, heur = -9.0, depth = 9
iter = 14478, queue = 21644, heur = -9.0, depth = 9
iter = 14479, queue = 21643, heur = -9.0, depth = 9
iter = 14480, queue = 21644, heur = -9.0, depth = 9
iter = 14481, queue = 21645, heur = -9.0, depth = 10
iter = 14482, queue = 21646, heur = -9.0, depth = 9
iter = 14483, queue = 21649, heur = -9.0, depth = 10
iter = 14484, queue = 21650, heur = -9.0, depth = 9
iter = 14485, queue = 21652, heur = -9.0, depth = 9
iter = 14486, queue = 21653, heur = -9.0, depth = 9
iter = 14487, queue = 21656, heur = -9.0, depth = 9
iter = 14488, queue = 21659, heur = -9.0, depth = 9
iter = 14489, queue = 21661, heur = -9.0, depth = 9
iter = 14490, queue = 21661, heur = -9.0, depth = 9
iter = 14491, queue = 21662, heur = -9.0, depth = 9
iter = 14492, queue = 21664, heur = -9.0, depth = 9
iter = 14493, queue = 21666, heur = -9.0, depth = 10
iter = 14494, queue = 21667, heur = -9.0, depth = 9
iter = 14495, queue = 21668, heur = -9.0, depth = 9
iter = 14496, queue = 21671, heur = -9.0, depth = 9
iter = 14497, queue = 21672, heur = -9.0, depth = 9
iter = 14498, queue = 21674, heur = -9.0, depth = 9
iter = 14499, queue = 21674, heur = -9.0, depth = 9
iter = 14500, queue = 21677, heur = -9.0, depth = 9
iter = 14501, queue = 21678, heur = -9.0, depth = 9
iter = 14502, queue = 21681, heur = -9.0, depth = 9
iter = 14503, queue = 21680, heur = -9.0, depth = 9
iter = 14504, queue = 21681, heur = -9.0, depth = 9
iter = 14505, queue = 21684, heur = -9.0, depth = 9
iter = 14506, queue = 21685, heur = -9.0, depth = 9
iter = 14507, queue = 21686, heur = -9.0, depth = 9
iter = 14508, queue = 21687, heur = -9.0, depth = 9
iter = 14509, queue = 21689, heur = -9.0, depth = 9
iter = 14510, queue = 21691, heur = -9.0, depth = 10
iter = 14511, queue = 21692, heur = -9.0, depth = 9
iter = 14512, queue = 21693, heur = -9.0, depth = 9
```

```
iter = 14513, queue = 21694, heur = -9.0, depth = 9
iter = 14514, queue = 21695, heur = -9.0, depth = 9
iter = 14515, queue = 21698, heur = -9.0, depth = 9
iter = 14516, queue = 21700, heur = -9.0, depth = 9
iter = 14517, queue = 21701, heur = -9.0, depth = 9
iter = 14518, queue = 21704, heur = -9.0, depth = 9
iter = 14519, queue = 21706, heur = -9.0, depth = 9
iter = 14520, queue = 21708, heur = -9.0, depth = 9
iter = 14521, queue = 21708, heur = -9.0, depth = 9
iter = 14522, queue = 21709, heur = -9.0, depth = 9
iter = 14523, queue = 21710, heur = -9.0, depth = 9
iter = 14524, queue = 21713, heur = -9.0, depth = 9
iter = 14525, queue = 21715, heur = -9.0, depth = 9
iter = 14526, queue = 21714, heur = -9.0, depth = 9
iter = 14527, queue = 21715, heur = -9.0, depth = 9
iter = 14528, queue = 21716, heur = -9.0, depth = 9
iter = 14529, queue = 21717, heur = -9.0, depth = 9
iter = 14530, queue = 21716, heur = -9.0, depth = 9
iter = 14531, queue = 21719, heur = -9.0, depth = 9
iter = 14532, queue = 21722, heur = -9.0, depth = 9
iter = 14533, queue = 21723, heur = -9.0, depth = 9
iter = 14534, queue = 21723, heur = -9.0, depth = 9
iter = 14535, queue = 21725, heur = -9.0, depth = 9
iter = 14536, queue = 21726, heur = -9.0, depth = 10
iter = 14537, queue = 21725, heur = -9.0, depth = 10
iter = 14538, queue = 21727, heur = -9.0, depth = 9
iter = 14539, queue = 21728, heur = -9.0, depth = 9
iter = 14540, queue = 21730, heur = -9.0, depth = 9
iter = 14541, queue = 21733, heur = -9.0, depth = 10
iter = 14542, queue = 21736, heur = -9.0, depth = 10
iter = 14543, queue = 21739, heur = -9.0, depth = 9
iter = 14544, queue = 21740, heur = -9.0, depth = 9
iter = 14545, queue = 21743, heur = -9.0, depth = 10
iter = 14546, queue = 21746, heur = -9.0, depth = 9
iter = 14547, queue = 21749, heur = -9.0, depth = 9
iter = 14548, queue = 21752, heur = -9.0, depth = 10
iter = 14549, queue = 21755, heur = -9.0, depth = 9
iter = 14550, queue = 21758, heur = -9.0, depth = 10
iter = 14551, queue = 21761, heur = -9.0, depth = 10
iter = 14552, queue = 21764, heur = -9.0, depth = 9
iter = 14553, queue = 21766, heur = -9.0, depth = 9
iter = 14554, queue = 21769, heur = -9.0, depth = 9
iter = 14555, queue = 21770, heur = -9.0, depth = 9
iter = 14556, queue = 21771, heur = -9.0, depth = 9
iter = 14557, queue = 21772, heur = -9.0, depth = 9
iter = 14558, queue = 21771, heur = -9.0, depth = 10
iter = 14559, queue = 21773, heur = -9.0, depth = 9
iter = 14560, queue = 21774, heur = -9.0, depth = 9
iter = 14561, queue = 21777, heur = -9.0, depth = 9
iter = 14562, queue = 21780, heur = -9.0, depth = 9
iter = 14563, queue = 21781, heur = -9.0, depth = 9
iter = 14564, queue = 21784, heur = -9.0, depth = 9
iter = 14565, queue = 21787, heur = -9.0, depth = 9
iter = 14566, queue = 21790, heur = -9.0, depth = 9
iter = 14567, queue = 21791, heur = -9.0, depth = 9
iter = 14568, queue = 21794, heur = -9.0, depth = 9
iter = 14569, queue = 21795, heur = -9.0, depth = 9
iter = 14570, queue = 21794, heur = -9.0, depth = 9
iter = 14571, queue = 21797, heur = -9.0, depth = 9
```

```
iter = 14572, queue = 21798, heur = -9.0, depth = 9
iter = 14573, queue = 21801, heur = -9.0, depth = 9
iter = 14574, queue = 21803, heur = -9.0, depth = 9
iter = 14575, queue = 21803, heur = -9.0, depth = 9
iter = 14576, queue = 21805, heur = -9.0, depth = 9
iter = 14577, queue = 21806, heur = -9.0, depth = 9
iter = 14578, queue = 21809, heur = -9.0, depth = 9
iter = 14579, queue = 21812, heur = -9.0, depth = 9
iter = 14580, queue = 21813, heur = -9.0, depth = 9
iter = 14581, queue = 21814, heur = -9.0, depth = 9
iter = 14582, queue = 21813, heur = -9.0, depth = 9
iter = 14583, queue = 21814, heur = -9.0, depth = 9
iter = 14584, queue = 21813, heur = -9.0, depth = 9
iter = 14585, queue = 21816, heur = -9.0, depth = 9
iter = 14586, queue = 21818, heur = -9.0, depth = 9
iter = 14587, queue = 21819, heur = -9.0, depth = 10
iter = 14588, queue = 21820, heur = -9.0, depth = 9
iter = 14589, queue = 21822, heur = -9.0, depth = 9
iter = 14590, queue = 21823, heur = -9.0, depth = 9
iter = 14591, queue = 21824, heur = -9.0, depth = 9
iter = 14592, queue = 21823, heur = -9.0, depth = 9
iter = 14593, queue = 21822, heur = -9.0, depth = 10
iter = 14594, queue = 21825, heur = -9.0, depth = 9
iter = 14595, queue = 21826, heur = -9.0, depth = 9
iter = 14596, queue = 21829, heur = -9.0, depth = 9
iter = 14597, queue = 21828, heur = -9.0, depth = 9
iter = 14598, queue = 21830, heur = -9.0, depth = 9
iter = 14599, queue = 21833, heur = -9.0, depth = 9
iter = 14600, queue = 21836, heur = -9.0, depth = 9
iter = 14601, queue = 21837, heur = -9.0, depth = 9
iter = 14602, queue = 21839, heur = -9.0, depth = 9
iter = 14603, queue = 21840, heur = -9.0, depth = 9
iter = 14604, queue = 21843, heur = -9.0, depth = 9
iter = 14605, queue = 21844, heur = -9.0, depth = 9
iter = 14606, queue = 21843, heur = -9.0, depth = 9
iter = 14607, queue = 21843, heur = -9.0, depth = 9
iter = 14608, queue = 21844, heur = -9.0, depth = 9
iter = 14609, queue = 21846, heur = -9.0, depth = 9
iter = 14610, queue = 21845, heur = -9.0, depth = 9
iter = 14611, queue = 21848, heur = -9.0, depth = 9
iter = 14612, queue = 21848, heur = -9.0, depth = 10
iter = 14613, queue = 21849, heur = -9.0, depth = 9
iter = 14614, queue = 21852, heur = -9.0, depth = 9
iter = 14615, queue = 21854, heur = -9.0, depth = 9
iter = 14616, queue = 21857, heur = -9.0, depth = 9
iter = 14617, queue = 21860, heur = -9.0, depth = 9
iter = 14618, queue = 21862, heur = -9.0, depth = 9
iter = 14619, queue = 21863, heur = -9.0, depth = 9
iter = 14620, queue = 21865, heur = -9.0, depth = 9
iter = 14621, queue = 21866, heur = -9.0, depth = 9
iter = 14622, queue = 21866, heur = -9.0, depth = 9
iter = 14623, queue = 21868, heur = -9.0, depth = 9
iter = 14624, queue = 21870, heur = -9.0, depth = 9
iter = 14625, queue = 21873, heur = -9.0, depth = 9
iter = 14626, queue = 21874, heur = -9.0, depth = 9
iter = 14627, queue = 21876, heur = -9.0, depth = 9
iter = 14628, queue = 21875, heur = -9.0, depth = 9
iter = 14629, queue = 21876, heur = -9.0, depth = 9
iter = 14630, queue = 21877, heur = -9.0, depth = 9
```

```
iter = 14631, queue = 21878, heur = -9.0, depth = 9
iter = 14632, queue = 21881, heur = -9.0, depth = 9
iter = 14633, queue = 21884, heur = -9.0, depth = 9
iter = 14634, queue = 21886, heur = -9.0, depth = 9
iter = 14635, queue = 21887, heur = -9.0, depth = 10
iter = 14636, queue = 21886, heur = -9.0, depth = 9
iter = 14637, queue = 21887, heur = -9.0, depth = 9
iter = 14638, queue = 21886, heur = -9.0, depth = 9
iter = 14639, queue = 21886, heur = -9.0, depth = 9
iter = 14640, queue = 21886, heur = -9.0, depth = 9
iter = 14641, queue = 21887, heur = -9.0, depth = 9
iter = 14642, queue = 21888, heur = -9.0, depth = 9
iter = 14643, queue = 21891, heur = -9.0, depth = 9
iter = 14644, queue = 21894, heur = -9.0, depth = 9
iter = 14645, queue = 21893, heur = -9.0, depth = 9
iter = 14646, queue = 21894, heur = -9.0, depth = 9
iter = 14647, queue = 21897, heur = -9.0, depth = 9
iter = 14648, queue = 21898, heur = -9.0, depth = 9
iter = 14649, queue = 21899, heur = -9.0, depth = 9
iter = 14650, queue = 21900, heur = -9.0, depth = 9
iter = 14651, queue = 21901, heur = -9.0, depth = 9
iter = 14652, queue = 21902, heur = -9.0, depth = 9
iter = 14653, queue = 21903, heur = -9.0, depth = 10
iter = 14654, queue = 21904, heur = -9.0, depth = 9
iter = 14655, queue = 21907, heur = -9.0, depth = 9
iter = 14656, queue = 21908, heur = -9.0, depth = 9
iter = 14657, queue = 21911, heur = -9.0, depth = 9
iter = 14658, queue = 21912, heur = -9.0, depth = 9
iter = 14659, queue = 21914, heur = -9.0, depth = 9
iter = 14660, queue = 21917, heur = -9.0, depth = 9
iter = 14661, queue = 21920, heur = -9.0, depth = 9
iter = 14662, queue = 21921, heur = -9.0, depth = 9
iter = 14663, queue = 21922, heur = -9.0, depth = 9
iter = 14664, queue = 21923, heur = -9.0, depth = 10
iter = 14665, queue = 21926, heur = -9.0, depth = 9
iter = 14666, queue = 21927, heur = -9.0, depth = 10
iter = 14667, queue = 21929, heur = -9.0, depth = 9
iter = 14668, queue = 21930, heur = -9.0, depth = 9
iter = 14669, queue = 21931, heur = -9.0, depth = 9
iter = 14670, queue = 21930, heur = -9.0, depth = 9
iter = 14671, queue = 21933, heur = -9.0, depth = 9
iter = 14672, queue = 21936, heur = -9.0, depth = 9
iter = 14673, queue = 21939, heur = -9.0, depth = 9
iter = 14674, queue = 21942, heur = -9.0, depth = 9
iter = 14675, queue = 21941, heur = -9.0, depth = 9
iter = 14676, queue = 21943, heur = -9.0, depth = 9
iter = 14677, queue = 21944, heur = -9.0, depth = 9
iter = 14678, queue = 21945, heur = -9.0, depth = 9
iter = 14679, queue = 21946, heur = -9.0, depth = 9
iter = 14680, queue = 21949, heur = -9.0, depth = 9
iter = 14681, queue = 21952, heur = -9.0, depth = 9
iter = 14682, queue = 21954, heur = -9.0, depth = 9
iter = 14683, queue = 21955, heur = -9.0, depth = 9
iter = 14684, queue = 21954, heur = -9.0, depth = 9
iter = 14685, queue = 21954, heur = -9.0, depth = 9
iter = 14686, queue = 21957, heur = -9.0, depth = 9
iter = 14687, queue = 21959, heur = -9.0, depth = 9
iter = 14688, queue = 21961, heur = -9.0, depth = 9
iter = 14689, queue = 21961, heur = -9.0, depth = 9
```

```
iter = 14690, queue = 21962, heur = -9.0, depth = 9
iter = 14691, queue = 21963, heur = -9.0, depth = 9
iter = 14692, queue = 21964, heur = -9.0, depth = 9
iter = 14693, queue = 21965, heur = -9.0, depth = 9
iter = 14694, queue = 21966, heur = -9.0, depth = 9
iter = 14695, queue = 21966, heur = -9.0, depth = 9
iter = 14696, queue = 21967, heur = -9.0, depth = 9
iter = 14697, queue = 21968, heur = -9.0, depth = 14
iter = 14698, queue = 21969, heur = -9.0, depth = 9
iter = 14699, queue = 21970, heur = -9.0, depth = 9
iter = 14700, queue = 21971, heur = -9.0, depth = 9
iter = 14701, queue = 21972, heur = -9.0, depth = 9
iter = 14702, queue = 21971, heur = -9.0, depth = 9
iter = 14703, queue = 21974, heur = -9.0, depth = 9
iter = 14704, queue = 21975, heur = -9.0, depth = 9
iter = 14705, queue = 21976, heur = -9.0, depth = 9
iter = 14706, queue = 21977, heur = -9.0, depth = 9
iter = 14707, queue = 21978, heur = -9.0, depth = 9
iter = 14708, queue = 21979, heur = -9.0, depth = 9
iter = 14709, queue = 21980, heur = -9.0, depth = 9
iter = 14710, queue = 21981, heur = -9.0, depth = 9
iter = 14711, queue = 21983, heur = -9.0, depth = 9
iter = 14712, queue = 21984, heur = -9.0, depth = 9
iter = 14713, queue = 21983, heur = -9.0, depth = 9
iter = 14714, queue = 21984, heur = -9.0, depth = 9
iter = 14715, queue = 21985, heur = -9.0, depth = 9
iter = 14716, queue = 21986, heur = -9.0, depth = 9
iter = 14717, queue = 21988, heur = -9.0, depth = 9
iter = 14718, queue = 21989, heur = -9.0, depth = 9
iter = 14719, queue = 21990, heur = -9.0, depth = 9
iter = 14720, queue = 21989, heur = -9.0, depth = 9
iter = 14721, queue = 21992, heur = -9.0, depth = 9
iter = 14722, queue = 21994, heur = -9.0, depth = 9
iter = 14723, queue = 21996, heur = -9.0, depth = 9
iter = 14724, queue = 21997, heur = -9.0, depth = 9
iter = 14725, queue = 21999, heur = -9.0, depth = 10
iter = 14726, queue = 22000, heur = -9.0, depth = 9
iter = 14727, queue = 22001, heur = -9.0, depth = 9
iter = 14728, queue = 22000, heur = -9.0, depth = 10
iter = 14729, queue = 22003, heur = -9.0, depth = 9
iter = 14730, queue = 22006, heur = -9.0, depth = 9
iter = 14731, queue = 22007, heur = -9.0, depth = 9
iter = 14732, queue = 22008, heur = -9.0, depth = 9
iter = 14733, queue = 22011, heur = -9.0, depth = 9
iter = 14734, queue = 22012, heur = -9.0, depth = 11
iter = 14735, queue = 22013, heur = -9.0, depth = 9
iter = 14736, queue = 22014, heur = -9.0, depth = 9
iter = 14737, queue = 22016, heur = -9.0, depth = 9
iter = 14738, queue = 22017, heur = -9.0, depth = 9
iter = 14739, queue = 22019, heur = -9.0, depth = 9
iter = 14740, queue = 22018, heur = -9.0, depth = 9
iter = 14741, queue = 22021, heur = -9.0, depth = 9
iter = 14742, queue = 22021, heur = -9.0, depth = 9
iter = 14743, queue = 22022, heur = -9.0, depth = 9
iter = 14744, queue = 22025, heur = -9.0, depth = 9
iter = 14745, queue = 22025, heur = -9.0, depth = 9
iter = 14746, queue = 22026, heur = -9.0, depth = 9
iter = 14747, queue = 22028, heur = -9.0, depth = 9
iter = 14748, queue = 22031, heur = -9.0, depth = 9
```

```
iter = 14749, queue = 22031, heur = -9.0, depth = 9
iter = 14750, queue = 22033, heur = -9.0, depth = 9
iter = 14751, queue = 22034, heur = -9.0, depth = 9
iter = 14752, queue = 22037, heur = -9.0, depth = 9
iter = 14753, queue = 22038, heur = -9.0, depth = 9
iter = 14754, queue = 22039, heur = -9.0, depth = 9
iter = 14755, queue = 22041, heur = -9.0, depth = 9
iter = 14756, queue = 22044, heur = -9.0, depth = 9
iter = 14757, queue = 22045, heur = -9.0, depth = 9
iter = 14758, queue = 22046, heur = -9.0, depth = 9
iter = 14759, queue = 22046, heur = -9.0, depth = 9
iter = 14760, queue = 22049, heur = -9.0, depth = 9
iter = 14761, queue = 22050, heur = -9.0, depth = 9
iter = 14762, queue = 22051, heur = -9.0, depth = 9
iter = 14763, queue = 22054, heur = -9.0, depth = 9
iter = 14764, queue = 22055, heur = -9.0, depth = 9
iter = 14765, queue = 22054, heur = -9.0, depth = 9
iter = 14766, queue = 22056, heur = -9.0, depth = 11
iter = 14767, queue = 22055, heur = -9.0, depth = 9
iter = 14768, queue = 22054, heur = -9.0, depth = 9
iter = 14769, queue = 22055, heur = -9.0, depth = 9
iter = 14770, queue = 22056, heur = -9.0, depth = 9
iter = 14771, queue = 22056, heur = -9.0, depth = 9
iter = 14772, queue = 22058, heur = -9.0, depth = 9
iter = 14773, queue = 22059, heur = -9.0, depth = 9
iter = 14774, queue = 22061, heur = -9.0, depth = 9
iter = 14775, queue = 22062, heur = -9.0, depth = 9
iter = 14776, queue = 22062, heur = -9.0, depth = 9
iter = 14777, queue = 22063, heur = -9.0, depth = 10
iter = 14778, queue = 22063, heur = -9.0, depth = 9
iter = 14779, queue = 22066, heur = -9.0, depth = 9
iter = 14780, queue = 22069, heur = -9.0, depth = 9
iter = 14781, queue = 22070, heur = -9.0, depth = 10
iter = 14782, queue = 22073, heur = -9.0, depth = 9
iter = 14783, queue = 22072, heur = -9.0, depth = 9
iter = 14784, queue = 22073, heur = -9.0, depth = 9
iter = 14785, queue = 22072, heur = -9.0, depth = 9
iter = 14786, queue = 22073, heur = -9.0, depth = 10
iter = 14787, queue = 22076, heur = -9.0, depth = 9
iter = 14788, queue = 22077, heur = -9.0, depth = 9
iter = 14789, queue = 22078, heur = -9.0, depth = 10
iter = 14790, queue = 22079, heur = -9.0, depth = 10
iter = 14791, queue = 22080, heur = -9.0, depth = 10
iter = 14792, queue = 22081, heur = -9.0, depth = 9
iter = 14793, queue = 22082, heur = -9.0, depth = 9
iter = 14794, queue = 22085, heur = -9.0, depth = 9
iter = 14795, queue = 22086, heur = -9.0, depth = 9
iter = 14796, queue = 22088, heur = -9.0, depth = 9
iter = 14797, queue = 22089, heur = -9.0, depth = 9
iter = 14798, queue = 22092, heur = -9.0, depth = 9
iter = 14799, queue = 22095, heur = -9.0, depth = 10
iter = 14800, queue = 22097, heur = -9.0, depth = 9
iter = 14801, queue = 22099, heur = -9.0, depth = 9
iter = 14802, queue = 22101, heur = -9.0, depth = 9
iter = 14803, queue = 22101, heur = -9.0, depth = 9
iter = 14804, queue = 22102, heur = -9.0, depth = 10
iter = 14805, queue = 22102, heur = -9.0, depth = 9
iter = 14806, queue = 22103, heur = -9.0, depth = 9
iter = 14807, queue = 22104, heur = -9.0, depth = 10
```

```
iter = 14808, queue = 22104, heur = -9.0, depth = 9
iter = 14809, queue = 22104, heur = -9.0, depth = 9
iter = 14810, queue = 22103, heur = -9.0, depth = 9
iter = 14811, queue = 22104, heur = -9.0, depth = 9
iter = 14812, queue = 22107, heur = -9.0, depth = 9
iter = 14813, queue = 22106, heur = -9.0, depth = 9
iter = 14814, queue = 22107, heur = -9.0, depth = 9
iter = 14815, queue = 22108, heur = -9.0, depth = 9
iter = 14816, queue = 22109, heur = -9.0, depth = 9
iter = 14817, queue = 22110, heur = -9.0, depth = 9
iter = 14818, queue = 22111, heur = -9.0, depth = 9
iter = 14819, queue = 22113, heur = -9.0, depth = 10
iter = 14820, queue = 22114, heur = -9.0, depth = 9
iter = 14821, queue = 22115, heur = -9.0, depth = 9
iter = 14822, queue = 22118, heur = -9.0, depth = 10
iter = 14823, queue = 22119, heur = -9.0, depth = 9
iter = 14824, queue = 22120, heur = -9.0, depth = 10
iter = 14825, queue = 22123, heur = -9.0, depth = 9
iter = 14826, queue = 22123, heur = -9.0, depth = 9
iter = 14827, queue = 22123, heur = -9.0, depth = 9
iter = 14828, queue = 22122, heur = -9.0, depth = 9
iter = 14829, queue = 22121, heur = -9.0, depth = 10
iter = 14830, queue = 22121, heur = -9.0, depth = 9
iter = 14831, queue = 22122, heur = -9.0, depth = 9
iter = 14832, queue = 22122, heur = -9.0, depth = 10
iter = 14833, queue = 22123, heur = -9.0, depth = 9
iter = 14834, queue = 22124, heur = -9.0, depth = 9
iter = 14835, queue = 22125, heur = -9.0, depth = 9
iter = 14836, queue = 22127, heur = -9.0, depth = 9
iter = 14837, queue = 22128, heur = -9.0, depth = 9
iter = 14838, queue = 22129, heur = -9.0, depth = 10
iter = 14839, queue = 22132, heur = -9.0, depth = 9
iter = 14840, queue = 22132, heur = -9.0, depth = 9
iter = 14841, queue = 22133, heur = -9.0, depth = 9
iter = 14842, queue = 22136, heur = -9.0, depth = 9
iter = 14843, queue = 22137, heur = -9.0, depth = 9
iter = 14844, queue = 22138, heur = -9.0, depth = 9
iter = 14845, queue = 22141, heur = -9.0, depth = 9
iter = 14846, queue = 22142, heur = -9.0, depth = 9
iter = 14847, queue = 22144, heur = -9.0, depth = 9
iter = 14848, queue = 22145, heur = -9.0, depth = 9
iter = 14849, queue = 22147, heur = -9.0, depth = 9
iter = 14850, queue = 22148, heur = -9.0, depth = 9
iter = 14851, queue = 22150, heur = -9.0, depth = 9
iter = 14852, queue = 22151, heur = -9.0, depth = 9
iter = 14853, queue = 22152, heur = -9.0, depth = 9
iter = 14854, queue = 22155, heur = -9.0, depth = 9
iter = 14855, queue = 22157, heur = -9.0, depth = 9
iter = 14856, queue = 22160, heur = -9.0, depth = 9
iter = 14857, queue = 22160, heur = -9.0, depth = 9
iter = 14858, queue = 22160, heur = -9.0, depth = 9
iter = 14859, queue = 22163, heur = -9.0, depth = 9
iter = 14860, queue = 22163, heur = -9.0, depth = 9
iter = 14861, queue = 22163, heur = -9.0, depth = 9
iter = 14862, queue = 22165, heur = -9.0, depth = 9
iter = 14863, queue = 22168, heur = -9.0, depth = 9
iter = 14864, queue = 22171, heur = -9.0, depth = 9
iter = 14865, queue = 22171, heur = -9.0, depth = 9
iter = 14866, queue = 22172, heur = -9.0, depth = 9
```

```
iter = 14867, queue = 22172, heur = -9.0, depth = 9
iter = 14868, queue = 22171, heur = -9.0, depth = 10
iter = 14869, queue = 22170, heur = -9.0, depth = 9
iter = 14870, queue = 22171, heur = -9.0, depth = 9
iter = 14871, queue = 22172, heur = -9.0, depth = 9
iter = 14872, queue = 22175, heur = -9.0, depth = 9
iter = 14873, queue = 22178, heur = -9.0, depth = 9
iter = 14874, queue = 22179, heur = -9.0, depth = 9
iter = 14875, queue = 22178, heur = -9.0, depth = 9
iter = 14876, queue = 22180, heur = -9.0, depth = 9
iter = 14877, queue = 22179, heur = -9.0, depth = 9
iter = 14878, queue = 22179, heur = -9.0, depth = 9
iter = 14879, queue = 22179, heur = -9.0, depth = 9
iter = 14880, queue = 22178, heur = -9.0, depth = 9
iter = 14881, queue = 22177, heur = -9.0, depth = 9
iter = 14882, queue = 22179, heur = -9.0, depth = 9
iter = 14883, queue = 22180, heur = -9.0, depth = 9
iter = 14884, queue = 22182, heur = -9.0, depth = 9
iter = 14885, queue = 22183, heur = -9.0, depth = 9
iter = 14886, queue = 22184, heur = -9.0, depth = 10
iter = 14887, queue = 22187, heur = -9.0, depth = 9
iter = 14888, queue = 22190, heur = -9.0, depth = 10
iter = 14889, queue = 22193, heur = -9.0, depth = 10
iter = 14890, queue = 22196, heur = -9.0, depth = 9
iter = 14891, queue = 22197, heur = -9.0, depth = 9
iter = 14892, queue = 22198, heur = -9.0, depth = 9
iter = 14893, queue = 22199, heur = -9.0, depth = 9
iter = 14894, queue = 22200, heur = -9.0, depth = 9
iter = 14895, queue = 22199, heur = -9.0, depth = 9
iter = 14896, queue = 22198, heur = -9.0, depth = 9
iter = 14897, queue = 22200, heur = -9.0, depth = 9
iter = 14898, queue = 22200, heur = -9.0, depth = 9
iter = 14899, queue = 22201, heur = -9.0, depth = 9
iter = 14900, queue = 22202, heur = -9.0, depth = 9
iter = 14901, queue = 22204, heur = -9.0, depth = 9
iter = 14902, queue = 22205, heur = -9.0, depth = 9
iter = 14903, queue = 22208, heur = -9.0, depth = 9
iter = 14904, queue = 22211, heur = -9.0, depth = 9
iter = 14905, queue = 22214, heur = -9.0, depth = 9
iter = 14906, queue = 22214, heur = -9.0, depth = 9
iter = 14907, queue = 22215, heur = -9.0, depth = 9
iter = 14908, queue = 22217, heur = -9.0, depth = 9
iter = 14909, queue = 22218, heur = -9.0, depth = 9
iter = 14910, queue = 22221, heur = -9.0, depth = 9
iter = 14911, queue = 22220, heur = -9.0, depth = 9
iter = 14912, queue = 22221, heur = -9.0, depth = 9
iter = 14913, queue = 22222, heur = -9.0, depth = 9
iter = 14914, queue = 22224, heur = -9.0, depth = 9
iter = 14915, queue = 22225, heur = -9.0, depth = 9
iter = 14916, queue = 22226, heur = -9.0, depth = 9
iter = 14917, queue = 22227, heur = -9.0, depth = 9
iter = 14918, queue = 22228, heur = -9.0, depth = 9
iter = 14919, queue = 22229, heur = -9.0, depth = 9
iter = 14920, queue = 22232, heur = -9.0, depth = 9
iter = 14921, queue = 22235, heur = -9.0, depth = 9
iter = 14922, queue = 22237, heur = -9.0, depth = 9
iter = 14923, queue = 22236, heur = -9.0, depth = 9
iter = 14924, queue = 22237, heur = -9.0, depth = 9
iter = 14925, queue = 22238, heur = -9.0, depth = 9
```

```
iter = 14926, queue = 22241, heur = -9.0, depth = 9
iter = 14927, queue = 22242, heur = -9.0, depth = 9
iter = 14928, queue = 22244, heur = -9.0, depth = 9
iter = 14929, queue = 22247, heur = -9.0, depth = 9
iter = 14930, queue = 22248, heur = -9.0, depth = 9
iter = 14931, queue = 22248, heur = -9.0, depth = 9
iter = 14932, queue = 22251, heur = -9.0, depth = 9
iter = 14933, queue = 22253, heur = -9.0, depth = 9
iter = 14934, queue = 22254, heur = -9.0, depth = 9
iter = 14935, queue = 22255, heur = -9.0, depth = 9
iter = 14936, queue = 22258, heur = -9.0, depth = 9
iter = 14937, queue = 22260, heur = -9.0, depth = 9
iter = 14938, queue = 22261, heur = -9.0, depth = 10
iter = 14939, queue = 22264, heur = -9.0, depth = 9
iter = 14940, queue = 22265, heur = -9.0, depth = 10
iter = 14941, queue = 22265, heur = -9.0, depth = 9
iter = 14942, queue = 22268, heur = -9.0, depth = 9
iter = 14943, queue = 22269, heur = -9.0, depth = 9
iter = 14944, queue = 22271, heur = -9.0, depth = 9
iter = 14945, queue = 22272, heur = -9.0, depth = 9
iter = 14946, queue = 22275, heur = -9.0, depth = 9
iter = 14947, queue = 22278, heur = -9.0, depth = 10
iter = 14948, queue = 22277, heur = -9.0, depth = 9
iter = 14949, queue = 22278, heur = -9.0, depth = 9
iter = 14950, queue = 22279, heur = -9.0, depth = 9
iter = 14951, queue = 22280, heur = -9.0, depth = 10
iter = 14952, queue = 22280, heur = -9.0, depth = 12
iter = 14953, queue = 22281, heur = -9.0, depth = 9
iter = 14954, queue = 22281, heur = -9.0, depth = 10
iter = 14955, queue = 22283, heur = -9.0, depth = 9
iter = 14956, queue = 22286, heur = -9.0, depth = 9
iter = 14957, queue = 22287, heur = -9.0, depth = 9
iter = 14958, queue = 22289, heur = -9.0, depth = 9
iter = 14959, queue = 22291, heur = -9.0, depth = 9
iter = 14960, queue = 22294, heur = -9.0, depth = 9
iter = 14961, queue = 22295, heur = -9.0, depth = 9
iter = 14962, queue = 22298, heur = -9.0, depth = 9
iter = 14963, queue = 22301, heur = -9.0, depth = 9
iter = 14964, queue = 22304, heur = -9.0, depth = 9
iter = 14965, queue = 22307, heur = -9.0, depth = 9
iter = 14966, queue = 22307, heur = -9.0, depth = 9
iter = 14967, queue = 22307, heur = -9.0, depth = 9
iter = 14968, queue = 22310, heur = -9.0, depth = 9
iter = 14969, queue = 22312, heur = -9.0, depth = 9
iter = 14970, queue = 22313, heur = -9.0, depth = 9
iter = 14971, queue = 22315, heur = -9.0, depth = 9
iter = 14972, queue = 22315, heur = -9.0, depth = 9
iter = 14973, queue = 22316, heur = -9.0, depth = 10
iter = 14974, queue = 22317, heur = -9.0, depth = 9
iter = 14975, queue = 22318, heur = -9.0, depth = 9
iter = 14976, queue = 22319, heur = -9.0, depth = 9
iter = 14977, queue = 22320, heur = -9.0, depth = 9
iter = 14978, queue = 22323, heur = -9.0, depth = 9
iter = 14979, queue = 22326, heur = -9.0, depth = 9
iter = 14980, queue = 22328, heur = -9.0, depth = 9
iter = 14981, queue = 22329, heur = -9.0, depth = 9
iter = 14982, queue = 22331, heur = -9.0, depth = 11
iter = 14983, queue = 22332, heur = -9.0, depth = 9
iter = 14984, queue = 22335, heur = -9.0, depth = 9
```

```
iter = 14985, queue = 22338, heur = -9.0, depth = 9
iter = 14986, queue = 22339, heur = -9.0, depth = 9
iter = 14987, queue = 22340, heur = -9.0, depth = 9
iter = 14988, queue = 22341, heur = -9.0, depth = 9
iter = 14989, queue = 22344, heur = -9.0, depth = 10
iter = 14990, queue = 22344, heur = -9.0, depth = 9
iter = 14991, queue = 22345, heur = -9.0, depth = 9
iter = 14992, queue = 22344, heur = -9.0, depth = 9
iter = 14993, queue = 22345, heur = -9.0, depth = 9
iter = 14994, queue = 22347, heur = -9.0, depth = 9
iter = 14995, queue = 22349, heur = -9.0, depth = 9
iter = 14996, queue = 22351, heur = -9.0, depth = 9
iter = 14997, queue = 22352, heur = -9.0, depth = 9
iter = 14998, queue = 22353, heur = -9.0, depth = 9
iter = 14999, queue = 22354, heur = -9.0, depth = 9
iter = 15000, queue = 22357, heur = -9.0, depth = 9
iter = 15001, queue = 22359, heur = -9.0, depth = 9
iter = 15002, queue = 22362, heur = -9.0, depth = 9
iter = 15003, queue = 22364, heur = -9.0, depth = 10
iter = 15004, queue = 22366, heur = -9.0, depth = 9
iter = 15005, queue = 22366, heur = -9.0, depth = 9
iter = 15006, queue = 22367, heur = -9.0, depth = 9
iter = 15007, queue = 22367, heur = -9.0, depth = 11
iter = 15008, queue = 22366, heur = -9.0, depth = 11
iter = 15009, queue = 22367, heur = -9.0, depth = 9
iter = 15010, queue = 22366, heur = -9.0, depth = 11
iter = 15011, queue = 22367, heur = -9.0, depth = 10
iter = 15012, queue = 22370, heur = -9.0, depth = 9
iter = 15013, queue = 22370, heur = -9.0, depth = 10
iter = 15014, queue = 22371, heur = -9.0, depth = 9
iter = 15015, queue = 22373, heur = -9.0, depth = 9
iter = 15016, queue = 22374, heur = -9.0, depth = 9
iter = 15017, queue = 22377, heur = -9.0, depth = 11
iter = 15018, queue = 22377, heur = -9.0, depth = 9
iter = 15019, queue = 22378, heur = -9.0, depth = 9
iter = 15020, queue = 22379, heur = -9.0, depth = 10
iter = 15021, queue = 22382, heur = -9.0, depth = 10
iter = 15022, queue = 22383, heur = -9.0, depth = 11
iter = 15023, queue = 22384, heur = -9.0, depth = 9
iter = 15024, queue = 22385, heur = -9.0, depth = 9
iter = 15025, queue = 22385, heur = -9.0, depth = 9
iter = 15026, queue = 22384, heur = -9.0, depth = 9
iter = 15027, queue = 22386, heur = -9.0, depth = 9
iter = 15028, queue = 22387, heur = -9.0, depth = 10
iter = 15029, queue = 22388, heur = -9.0, depth = 9
iter = 15030, queue = 22390, heur = -9.0, depth = 9
iter = 15031, queue = 22393, heur = -9.0, depth = 10
iter = 15032, queue = 22396, heur = -9.0, depth = 9
iter = 15033, queue = 22398, heur = -9.0, depth = 10
iter = 15034, queue = 22401, heur = -9.0, depth = 10
iter = 15035, queue = 22404, heur = -9.0, depth = 9
iter = 15036, queue = 22405, heur = -9.0, depth = 10
iter = 15037, queue = 22405, heur = -9.0, depth = 9
iter = 15038, queue = 22408, heur = -9.0, depth = 9
iter = 15039, queue = 22407, heur = -9.0, depth = 9
iter = 15040, queue = 22409, heur = -9.0, depth = 9
iter = 15041, queue = 22412, heur = -9.0, depth = 9
iter = 15042, queue = 22413, heur = -9.0, depth = 9
iter = 15043, queue = 22416, heur = -9.0, depth = 9
```

```
iter = 15044, queue = 22419, heur = -9.0, depth = 9
iter = 15045, queue = 22418, heur = -9.0, depth = 9
iter = 15046, queue = 22421, heur = -9.0, depth = 9
iter = 15047, queue = 22422, heur = -9.0, depth = 9
iter = 15048, queue = 22422, heur = -9.0, depth = 9
iter = 15049, queue = 22424, heur = -9.0, depth = 9
iter = 15050, queue = 22424, heur = -9.0, depth = 9
iter = 15051, queue = 22426, heur = -9.0, depth = 10
iter = 15052, queue = 22428, heur = -9.0, depth = 9
iter = 15053, queue = 22429, heur = -9.0, depth = 9
iter = 15054, queue = 22428, heur = -9.0, depth = 9
iter = 15055, queue = 22429, heur = -9.0, depth = 9
iter = 15056, queue = 22430, heur = -9.0, depth = 9
iter = 15057, queue = 22431, heur = -9.0, depth = 9
iter = 15058, queue = 22432, heur = -9.0, depth = 9
iter = 15059, queue = 22435, heur = -9.0, depth = 10
iter = 15060, queue = 22434, heur = -9.0, depth = 9
iter = 15061, queue = 22435, heur = -9.0, depth = 9
iter = 15062, queue = 22438, heur = -9.0, depth = 9
iter = 15063, queue = 22441, heur = -9.0, depth = 9
iter = 15064, queue = 22441, heur = -9.0, depth = 9
iter = 15065, queue = 22442, heur = -9.0, depth = 9
iter = 15066, queue = 22445, heur = -9.0, depth = 9
iter = 15067, queue = 22446, heur = -9.0, depth = 9
iter = 15068, queue = 22449, heur = -9.0, depth = 9
iter = 15069, queue = 22450, heur = -9.0, depth = 9
iter = 15070, queue = 22449, heur = -9.0, depth = 10
iter = 15071, queue = 22449, heur = -9.0, depth = 9
iter = 15072, queue = 22449, heur = -9.0, depth = 9
iter = 15073, queue = 22450, heur = -9.0, depth = 9
iter = 15074, queue = 22453, heur = -9.0, depth = 9
iter = 15075, queue = 22455, heur = -9.0, depth = 9
iter = 15076, queue = 22458, heur = -9.0, depth = 9
iter = 15077, queue = 22459, heur = -9.0, depth = 9
iter = 15078, queue = 22458, heur = -9.0, depth = 9
iter = 15079, queue = 22461, heur = -9.0, depth = 10
iter = 15080, queue = 22462, heur = -9.0, depth = 10
iter = 15081, queue = 22463, heur = -9.0, depth = 9
iter = 15082, queue = 22466, heur = -9.0, depth = 10
iter = 15083, queue = 22469, heur = -9.0, depth = 9
iter = 15084, queue = 22468, heur = -9.0, depth = 9
iter = 15085, queue = 22469, heur = -9.0, depth = 9
iter = 15086, queue = 22470, heur = -9.0, depth = 9
iter = 15087, queue = 22473, heur = -9.0, depth = 9
iter = 15088, queue = 22474, heur = -9.0, depth = 9
iter = 15089, queue = 22476, heur = -9.0, depth = 9
iter = 15090, queue = 22476, heur = -9.0, depth = 9
iter = 15091, queue = 22479, heur = -9.0, depth = 9
iter = 15092, queue = 22478, heur = -9.0, depth = 9
iter = 15093, queue = 22479, heur = -9.0, depth = 9
iter = 15094, queue = 22480, heur = -9.0, depth = 9
iter = 15095, queue = 22483, heur = -9.0, depth = 9
iter = 15096, queue = 22484, heur = -9.0, depth = 9
iter = 15097, queue = 22487, heur = -9.0, depth = 9
iter = 15098, queue = 22489, heur = -9.0, depth = 9
iter = 15099, queue = 22492, heur = -9.0, depth = 9
iter = 15100, queue = 22491, heur = -9.0, depth = 9
iter = 15101, queue = 22492, heur = -9.0, depth = 9
iter = 15102, queue = 22491, heur = -9.0, depth = 9
```

```
iter = 15103, queue = 22492, heur = -9.0, depth = 9
iter = 15104, queue = 22494, heur = -9.0, depth = 9
iter = 15105, queue = 22497, heur = -9.0, depth = 9
iter = 15106, queue = 22496, heur = -9.0, depth = 9
iter = 15107, queue = 22495, heur = -9.0, depth = 9
iter = 15108, queue = 22494, heur = -9.0, depth = 9
iter = 15109, queue = 22495, heur = -9.0, depth = 9
iter = 15110, queue = 22494, heur = -9.0, depth = 9
iter = 15111, queue = 22495, heur = -9.0, depth = 9
iter = 15112, queue = 22496, heur = -9.0, depth = 9
iter = 15113, queue = 22497, heur = -9.0, depth = 9
iter = 15114, queue = 22500, heur = -9.0, depth = 9
iter = 15115, queue = 22501, heur = -9.0, depth = 9
iter = 15116, queue = 22502, heur = -9.0, depth = 9
iter = 15117, queue = 22503, heur = -9.0, depth = 9
iter = 15118, queue = 22506, heur = -9.0, depth = 9
iter = 15119, queue = 22507, heur = -9.0, depth = 9
iter = 15120, queue = 22510, heur = -9.0, depth = 9
iter = 15121, queue = 22509, heur = -9.0, depth = 9
iter = 15122, queue = 22512, heur = -9.0, depth = 10
iter = 15123, queue = 22511, heur = -9.0, depth = 9
iter = 15124, queue = 22510, heur = -9.0, depth = 9
iter = 15125, queue = 22513, heur = -9.0, depth = 9
iter = 15126, queue = 22516, heur = -9.0, depth = 9
iter = 15127, queue = 22519, heur = -9.0, depth = 9
iter = 15128, queue = 22522, heur = -9.0, depth = 9
iter = 15129, queue = 22525, heur = -9.0, depth = 9
iter = 15130, queue = 22524, heur = -9.0, depth = 9
iter = 15131, queue = 22524, heur = -9.0, depth = 9
iter = 15132, queue = 22525, heur = -9.0, depth = 9
iter = 15133, queue = 22525, heur = -9.0, depth = 9
iter = 15134, queue = 22528, heur = -9.0, depth = 9
iter = 15135, queue = 22531, heur = -9.0, depth = 9
iter = 15136, queue = 22532, heur = -9.0, depth = 9
iter = 15137, queue = 22535, heur = -9.0, depth = 9
iter = 15138, queue = 22538, heur = -9.0, depth = 9
iter = 15139, queue = 22541, heur = -9.0, depth = 10
iter = 15140, queue = 22542, heur = -9.0, depth = 9
iter = 15141, queue = 22543, heur = -9.0, depth = 9
iter = 15142, queue = 22546, heur = -9.0, depth = 9
iter = 15143, queue = 22549, heur = -9.0, depth = 9
iter = 15144, queue = 22549, heur = -9.0, depth = 9
iter = 15145, queue = 22550, heur = -9.0, depth = 10
iter = 15146, queue = 22552, heur = -9.0, depth = 9
iter = 15147, queue = 22553, heur = -9.0, depth = 10
iter = 15148, queue = 22555, heur = -9.0, depth = 9
iter = 15149, queue = 22556, heur = -9.0, depth = 10
iter = 15150, queue = 22558, heur = -9.0, depth = 9
iter = 15151, queue = 22559, heur = -9.0, depth = 9
iter = 15152, queue = 22562, heur = -9.0, depth = 9
iter = 15153, queue = 22564, heur = -9.0, depth = 9
iter = 15154, queue = 22566, heur = -9.0, depth = 9
iter = 15155, queue = 22569, heur = -9.0, depth = 9
iter = 15156, queue = 22572, heur = -9.0, depth = 9
iter = 15157, queue = 22572, heur = -9.0, depth = 9
iter = 15158, queue = 22573, heur = -9.0, depth = 10
iter = 15159, queue = 22575, heur = -9.0, depth = 9
iter = 15160, queue = 22577, heur = -9.0, depth = 9
iter = 15161, queue = 22578, heur = -9.0, depth = 9
```

```
iter = 15162, queue = 22580, heur = -9.0, depth = 9
iter = 15163, queue = 22581, heur = -9.0, depth = 10
iter = 15164, queue = 22583, heur = -9.0, depth = 10
iter = 15165, queue = 22584, heur = -9.0, depth = 9
iter = 15166, queue = 22585, heur = -9.0, depth = 9
iter = 15167, queue = 22588, heur = -9.0, depth = 10
iter = 15168, queue = 22589, heur = -9.0, depth = 9
iter = 15169, queue = 22591, heur = -9.0, depth = 9
iter = 15170, queue = 22590, heur = -9.0, depth = 10
iter = 15171, queue = 22591, heur = -9.0, depth = 9
iter = 15172, queue = 22590, heur = -9.0, depth = 9
iter = 15173, queue = 22590, heur = -9.0, depth = 9
iter = 15174, queue = 22589, heur = -9.0, depth = 9
iter = 15175, queue = 22588, heur = -9.0, depth = 9
iter = 15176, queue = 22590, heur = -9.0, depth = 9
iter = 15177, queue = 22593, heur = -9.0, depth = 10
iter = 15178, queue = 22595, heur = -9.0, depth = 9
iter = 15179, queue = 22596, heur = -9.0, depth = 9
iter = 15180, queue = 22597, heur = -9.0, depth = 9
iter = 15181, queue = 22600, heur = -9.0, depth = 9
iter = 15182, queue = 22602, heur = -9.0, depth = 10
iter = 15183, queue = 22603, heur = -9.0, depth = 9
iter = 15184, queue = 22604, heur = -9.0, depth = 9
iter = 15185, queue = 22607, heur = -9.0, depth = 9
iter = 15186, queue = 22608, heur = -9.0, depth = 9
iter = 15187, queue = 22611, heur = -9.0, depth = 9
iter = 15188, queue = 22614, heur = -9.0, depth = 9
iter = 15189, queue = 22615, heur = -9.0, depth = 9
iter = 15190, queue = 22616, heur = -9.0, depth = 9
iter = 15191, queue = 22617, heur = -9.0, depth = 10
iter = 15192, queue = 22618, heur = -9.0, depth = 9
iter = 15193, queue = 22621, heur = -9.0, depth = 9
iter = 15194, queue = 22622, heur = -9.0, depth = 9
iter = 15195, queue = 22623, heur = -9.0, depth = 9
iter = 15196, queue = 22623, heur = -9.0, depth = 9
iter = 15197, queue = 22624, heur = -9.0, depth = 10
iter = 15198, queue = 22626, heur = -9.0, depth = 9
iter = 15199, queue = 22629, heur = -9.0, depth = 9
iter = 15200, queue = 22631, heur = -9.0, depth = 10
iter = 15201, queue = 22634, heur = -9.0, depth = 9
iter = 15202, queue = 22637, heur = -9.0, depth = 9
iter = 15203, queue = 22639, heur = -9.0, depth = 9
iter = 15204, queue = 22638, heur = -9.0, depth = 9
iter = 15205, queue = 22637, heur = -9.0, depth = 9
iter = 15206, queue = 22639, heur = -9.0, depth = 9
iter = 15207, queue = 22640, heur = -9.0, depth = 9
iter = 15208, queue = 22642, heur = -9.0, depth = 9
iter = 15209, queue = 22643, heur = -9.0, depth = 9
iter = 15210, queue = 22642, heur = -9.0, depth = 9
iter = 15211, queue = 22642, heur = -9.0, depth = 9
iter = 15212, queue = 22643, heur = -9.0, depth = 9
iter = 15213, queue = 22646, heur = -9.0, depth = 9
iter = 15214, queue = 22649, heur = -9.0, depth = 9
iter = 15215, queue = 22650, heur = -9.0, depth = 9
iter = 15216, queue = 22651, heur = -9.0, depth = 9
iter = 15217, queue = 22650, heur = -9.0, depth = 9
iter = 15218, queue = 22652, heur = -9.0, depth = 9
iter = 15219, queue = 22651, heur = -9.0, depth = 9
iter = 15220, queue = 22654, heur = -9.0, depth = 9
```

```
iter = 15221, queue = 22653, heur = -9.0, depth = 9
iter = 15222, queue = 22654, heur = -9.0, depth = 9
iter = 15223, queue = 22653, heur = -9.0, depth = 9
iter = 15224, queue = 22656, heur = -9.0, depth = 9
iter = 15225, queue = 22659, heur = -9.0, depth = 9
iter = 15226, queue = 22660, heur = -9.0, depth = 9
iter = 15227, queue = 22661, heur = -9.0, depth = 9
iter = 15228, queue = 22662, heur = -9.0, depth = 9
iter = 15229, queue = 22665, heur = -9.0, depth = 9
iter = 15230, queue = 22666, heur = -9.0, depth = 9
iter = 15231, queue = 22667, heur = -9.0, depth = 9
iter = 15232, queue = 22668, heur = -9.0, depth = 9
iter = 15233, queue = 22669, heur = -9.0, depth = 9
iter = 15234, queue = 22670, heur = -9.0, depth = 9
iter = 15235, queue = 22671, heur = -9.0, depth = 9
iter = 15236, queue = 22674, heur = -9.0, depth = 9
iter = 15237, queue = 22675, heur = -9.0, depth = 9
iter = 15238, queue = 22678, heur = -9.0, depth = 9
iter = 15239, queue = 22679, heur = -9.0, depth = 9
iter = 15240, queue = 22682, heur = -9.0, depth = 9
iter = 15241, queue = 22684, heur = -9.0, depth = 9
iter = 15242, queue = 22683, heur = -9.0, depth = 9
iter = 15243, queue = 22684, heur = -9.0, depth = 9
iter = 15244, queue = 22684, heur = -9.0, depth = 9
iter = 15245, queue = 22685, heur = -9.0, depth = 9
iter = 15246, queue = 22684, heur = -9.0, depth = 9
iter = 15247, queue = 22683, heur = -9.0, depth = 9
iter = 15248, queue = 22683, heur = -9.0, depth = 9
iter = 15249, queue = 22686, heur = -9.0, depth = 9
iter = 15250, queue = 22688, heur = -9.0, depth = 9
iter = 15251, queue = 22691, heur = -9.0, depth = 9
iter = 15252, queue = 22694, heur = -9.0, depth = 9
iter = 15253, queue = 22697, heur = -9.0, depth = 9
iter = 15254, queue = 22698, heur = -9.0, depth = 9
iter = 15255, queue = 22700, heur = -9.0, depth = 9
iter = 15256, queue = 22700, heur = -9.0, depth = 9
iter = 15257, queue = 22701, heur = -9.0, depth = 9
iter = 15258, queue = 22702, heur = -9.0, depth = 9
iter = 15259, queue = 22703, heur = -9.0, depth = 9
iter = 15260, queue = 22706, heur = -9.0, depth = 9
iter = 15261, queue = 22707, heur = -9.0, depth = 9
iter = 15262, queue = 22709, heur = -9.0, depth = 9
iter = 15263, queue = 22708, heur = -9.0, depth = 9
iter = 15264, queue = 22709, heur = -9.0, depth = 9
iter = 15265, queue = 22710, heur = -9.0, depth = 9
iter = 15266, queue = 22713, heur = -9.0, depth = 9
iter = 15267, queue = 22716, heur = -9.0, depth = 9
iter = 15268, queue = 22719, heur = -9.0, depth = 9
iter = 15269, queue = 22719, heur = -9.0, depth = 9
iter = 15270, queue = 22720, heur = -9.0, depth = 9
iter = 15271, queue = 22722, heur = -9.0, depth = 9
iter = 15272, queue = 22723, heur = -9.0, depth = 9
iter = 15273, queue = 22724, heur = -9.0, depth = 9
iter = 15274, queue = 22725, heur = -9.0, depth = 9
iter = 15275, queue = 22726, heur = -9.0, depth = 9
iter = 15276, queue = 22727, heur = -9.0, depth = 9
iter = 15277, queue = 22730, heur = -9.0, depth = 9
iter = 15278, queue = 22733, heur = -9.0, depth = 9
iter = 15279, queue = 22732, heur = -9.0, depth = 9
```

```
iter = 15280, queue = 22733, heur = -9.0, depth = 9
iter = 15281, queue = 22735, heur = -9.0, depth = 9
iter = 15282, queue = 22735, heur = -9.0, depth = 9
iter = 15283, queue = 22737, heur = -9.0, depth = 9
iter = 15284, queue = 22738, heur = -9.0, depth = 10
iter = 15285, queue = 22741, heur = -9.0, depth = 9
iter = 15286, queue = 22740, heur = -9.0, depth = 10
iter = 15287, queue = 22743, heur = -9.0, depth = 10
iter = 15288, queue = 22746, heur = -9.0, depth = 9
iter = 15289, queue = 22747, heur = -9.0, depth = 9
iter = 15290, queue = 22748, heur = -9.0, depth = 9
iter = 15291, queue = 22750, heur = -9.0, depth = 9
iter = 15292, queue = 22753, heur = -9.0, depth = 9
iter = 15293, queue = 22754, heur = -9.0, depth = 9
iter = 15294, queue = 22755, heur = -9.0, depth = 9
iter = 15295, queue = 22756, heur = -9.0, depth = 9
iter = 15296, queue = 22757, heur = -9.0, depth = 9
iter = 15297, queue = 22759, heur = -9.0, depth = 9
iter = 15298, queue = 22760, heur = -9.0, depth = 9
iter = 15299, queue = 22759, heur = -9.0, depth = 9
iter = 15300, queue = 22762, heur = -9.0, depth = 9
iter = 15301, queue = 22765, heur = -9.0, depth = 9
iter = 15302, queue = 22768, heur = -9.0, depth = 9
iter = 15303, queue = 22771, heur = -9.0, depth = 9
iter = 15304, queue = 22773, heur = -9.0, depth = 9
iter = 15305, queue = 22772, heur = -9.0, depth = 9
iter = 15306, queue = 22774, heur = -9.0, depth = 9
iter = 15307, queue = 22775, heur = -9.0, depth = 9
iter = 15308, queue = 22776, heur = -9.0, depth = 9
iter = 15309, queue = 22777, heur = -9.0, depth = 9
iter = 15310, queue = 22779, heur = -9.0, depth = 9
iter = 15311, queue = 22782, heur = -9.0, depth = 9
iter = 15312, queue = 22784, heur = -9.0, depth = 9
iter = 15313, queue = 22785, heur = -9.0, depth = 9
iter = 15314, queue = 22785, heur = -9.0, depth = 9
iter = 15315, queue = 22785, heur = -9.0, depth = 9
iter = 15316, queue = 22788, heur = -9.0, depth = 9
iter = 15317, queue = 22789, heur = -9.0, depth = 9
iter = 15318, queue = 22791, heur = -9.0, depth = 9
iter = 15319, queue = 22790, heur = -9.0, depth = 9
iter = 15320, queue = 22791, heur = -9.0, depth = 9
iter = 15321, queue = 22792, heur = -9.0, depth = 9
iter = 15322, queue = 22793, heur = -9.0, depth = 9
iter = 15323, queue = 22795, heur = -9.0, depth = 9
iter = 15324, queue = 22797, heur = -9.0, depth = 9
iter = 15325, queue = 22800, heur = -9.0, depth = 9
iter = 15326, queue = 22801, heur = -9.0, depth = 9
iter = 15327, queue = 22802, heur = -9.0, depth = 9
iter = 15328, queue = 22805, heur = -9.0, depth = 9
iter = 15329, queue = 22805, heur = -9.0, depth = 9
iter = 15330, queue = 22808, heur = -9.0, depth = 10
iter = 15331, queue = 22809, heur = -9.0, depth = 9
iter = 15332, queue = 22808, heur = -9.0, depth = 9
iter = 15333, queue = 22809, heur = -9.0, depth = 9
iter = 15334, queue = 22810, heur = -9.0, depth = 9
iter = 15335, queue = 22811, heur = -9.0, depth = 9
iter = 15336, queue = 22812, heur = -9.0, depth = 9
iter = 15337, queue = 22813, heur = -9.0, depth = 9
iter = 15338, queue = 22814, heur = -9.0, depth = 9
```

```
iter = 15339, queue = 22816, heur = -9.0, depth = 9
iter = 15340, queue = 22817, heur = -9.0, depth = 10
iter = 15341, queue = 22819, heur = -9.0, depth = 9
iter = 15342, queue = 22822, heur = -9.0, depth = 9
iter = 15343, queue = 22824, heur = -9.0, depth = 9
iter = 15344, queue = 22827, heur = -9.0, depth = 9
iter = 15345, queue = 22828, heur = -9.0, depth = 9
iter = 15346, queue = 22830, heur = -9.0, depth = 9
iter = 15347, queue = 22832, heur = -9.0, depth = 9
iter = 15348, queue = 22833, heur = -9.0, depth = 9
iter = 15349, queue = 22834, heur = -9.0, depth = 9
iter = 15350, queue = 22837, heur = -9.0, depth = 9
iter = 15351, queue = 22839, heur = -9.0, depth = 9
iter = 15352, queue = 22841, heur = -9.0, depth = 9
iter = 15353, queue = 22841, heur = -9.0, depth = 9
iter = 15354, queue = 22843, heur = -9.0, depth = 9
iter = 15355, queue = 22843, heur = -9.0, depth = 9
iter = 15356, queue = 22846, heur = -9.0, depth = 9
iter = 15357, queue = 22849, heur = -9.0, depth = 9
iter = 15358, queue = 22851, heur = -9.0, depth = 9
iter = 15359, queue = 22850, heur = -9.0, depth = 9
iter = 15360, queue = 22851, heur = -9.0, depth = 9
iter = 15361, queue = 22852, heur = -9.0, depth = 9
iter = 15362, queue = 22851, heur = -9.0, depth = 9
iter = 15363, queue = 22853, heur = -9.0, depth = 10
iter = 15364, queue = 22852, heur = -9.0, depth = 9
iter = 15365, queue = 22852, heur = -9.0, depth = 9
iter = 15366, queue = 22853, heur = -9.0, depth = 9
iter = 15367, queue = 22854, heur = -9.0, depth = 9
iter = 15368, queue = 22857, heur = -9.0, depth = 9
iter = 15369, queue = 22859, heur = -9.0, depth = 9
iter = 15370, queue = 22861, heur = -9.0, depth = 9
iter = 15371, queue = 22862, heur = -9.0, depth = 9
iter = 15372, queue = 22862, heur = -9.0, depth = 9
iter = 15373, queue = 22863, heur = -9.0, depth = 10
iter = 15374, queue = 22864, heur = -9.0, depth = 9
iter = 15375, queue = 22864, heur = -9.0, depth = 10
iter = 15376, queue = 22867, heur = -9.0, depth = 10
iter = 15377, queue = 22866, heur = -9.0, depth = 9
iter = 15378, queue = 22869, heur = -9.0, depth = 10
iter = 15379, queue = 22872, heur = -9.0, depth = 10
iter = 15380, queue = 22875, heur = -9.0, depth = 9
iter = 15381, queue = 22876, heur = -9.0, depth = 9
iter = 15382, queue = 22877, heur = -9.0, depth = 9
iter = 15383, queue = 22878, heur = -9.0, depth = 10
iter = 15384, queue = 22879, heur = -9.0, depth = 9
iter = 15385, queue = 22878, heur = -9.0, depth = 9
iter = 15386, queue = 22879, heur = -9.0, depth = 9
iter = 15387, queue = 22880, heur = -9.0, depth = 9
iter = 15388, queue = 22881, heur = -9.0, depth = 10
iter = 15389, queue = 22881, heur = -9.0, depth = 9
iter = 15390, queue = 22881, heur = -9.0, depth = 9
iter = 15391, queue = 22884, heur = -9.0, depth = 9
iter = 15392, queue = 22885, heur = -9.0, depth = 9
iter = 15393, queue = 22888, heur = -9.0, depth = 9
iter = 15394, queue = 22891, heur = -9.0, depth = 9
iter = 15395, queue = 22892, heur = -9.0, depth = 9
iter = 15396, queue = 22895, heur = -9.0, depth = 9
iter = 15397, queue = 22898, heur = -9.0, depth = 9
```

```
iter = 15398, queue = 22901, heur = -9.0, depth = 9
iter = 15399, queue = 22904, heur = -9.0, depth = 9
iter = 15400, queue = 22907, heur = -9.0, depth = 9
iter = 15401, queue = 22908, heur = -9.0, depth = 9
iter = 15402, queue = 22909, heur = -9.0, depth = 9
iter = 15403, queue = 22908, heur = -9.0, depth = 9
iter = 15404, queue = 22910, heur = -9.0, depth = 9
iter = 15405, queue = 22910, heur = -9.0, depth = 9
iter = 15406, queue = 22911, heur = -9.0, depth = 9
iter = 15407, queue = 22914, heur = -9.0, depth = 10
iter = 15408, queue = 22917, heur = -9.0, depth = 9
iter = 15409, queue = 22918, heur = -9.0, depth = 9
iter = 15410, queue = 22917, heur = -9.0, depth = 10
iter = 15411, queue = 22918, heur = -9.0, depth = 10
iter = 15412, queue = 22919, heur = -9.0, depth = 9
iter = 15413, queue = 22918, heur = -9.0, depth = 9
iter = 15414, queue = 22919, heur = -9.0, depth = 9
iter = 15415, queue = 22920, heur = -9.0, depth = 9
iter = 15416, queue = 22920, heur = -9.0, depth = 10
iter = 15417, queue = 22922, heur = -9.0, depth = 10
iter = 15418, queue = 22921, heur = -9.0, depth = 9
iter = 15419, queue = 22922, heur = -9.0, depth = 9
iter = 15420, queue = 22925, heur = -9.0, depth = 9
iter = 15421, queue = 22924, heur = -9.0, depth = 9
iter = 15422, queue = 22927, heur = -9.0, depth = 9
iter = 15423, queue = 22928, heur = -9.0, depth = 9
iter = 15424, queue = 22929, heur = -9.0, depth = 10
iter = 15425, queue = 22932, heur = -9.0, depth = 9
iter = 15426, queue = 22933, heur = -9.0, depth = 9
iter = 15427, queue = 22934, heur = -9.0, depth = 9
iter = 15428, queue = 22935, heur = -9.0, depth = 9
iter = 15429, queue = 22936, heur = -9.0, depth = 9
iter = 15430, queue = 22938, heur = -9.0, depth = 9
iter = 15431, queue = 22940, heur = -9.0, depth = 9
iter = 15432, queue = 22942, heur = -9.0, depth = 9
iter = 15433, queue = 22941, heur = -9.0, depth = 9
iter = 15434, queue = 22942, heur = -9.0, depth = 9
iter = 15435, queue = 22944, heur = -9.0, depth = 9
iter = 15436, queue = 22945, heur = -9.0, depth = 9
iter = 15437, queue = 22946, heur = -9.0, depth = 9
iter = 15438, queue = 22947, heur = -9.0, depth = 9
iter = 15439, queue = 22948, heur = -9.0, depth = 9
iter = 15440, queue = 22949, heur = -9.0, depth = 9
iter = 15441, queue = 22950, heur = -9.0, depth = 9
iter = 15442, queue = 22951, heur = -9.0, depth = 9
iter = 15443, queue = 22952, heur = -9.0, depth = 9
iter = 15444, queue = 22955, heur = -9.0, depth = 9
iter = 15445, queue = 22957, heur = -9.0, depth = 10
iter = 15446, queue = 22958, heur = -9.0, depth = 9
iter = 15447, queue = 22959, heur = -9.0, depth = 9
iter = 15448, queue = 22959, heur = -9.0, depth = 10
iter = 15449, queue = 22961, heur = -9.0, depth = 10
iter = 15450, queue = 22962, heur = -9.0, depth = 9
iter = 15451, queue = 22964, heur = -9.0, depth = 9
iter = 15452, queue = 22965, heur = -9.0, depth = 9
iter = 15453, queue = 22968, heur = -9.0, depth = 9
iter = 15454, queue = 22967, heur = -9.0, depth = 9
iter = 15455, queue = 22970, heur = -9.0, depth = 9
iter = 15456, queue = 22971, heur = -9.0, depth = 9
```

```
iter = 15457, queue = 22974, heur = -9.0, depth = 9
iter = 15458, queue = 22975, heur = -9.0, depth = 9
iter = 15459, queue = 22978, heur = -9.0, depth = 9
iter = 15460, queue = 22977, heur = -9.0, depth = 9
iter = 15461, queue = 22978, heur = -9.0, depth = 9
iter = 15462, queue = 22977, heur = -9.0, depth = 9
iter = 15463, queue = 22976, heur = -9.0, depth = 11
iter = 15464, queue = 22976, heur = -9.0, depth = 11
iter = 15465, queue = 22977, heur = -9.0, depth = 9
iter = 15466, queue = 22980, heur = -9.0, depth = 9
iter = 15467, queue = 22981, heur = -9.0, depth = 9
iter = 15468, queue = 22983, heur = -9.0, depth = 9
iter = 15469, queue = 22984, heur = -9.0, depth = 9
iter = 15470, queue = 22985, heur = -9.0, depth = 9
iter = 15471, queue = 22987, heur = -9.0, depth = 9
iter = 15472, queue = 22988, heur = -9.0, depth = 9
iter = 15473, queue = 22990, heur = -9.0, depth = 9
iter = 15474, queue = 22990, heur = -9.0, depth = 9
iter = 15475, queue = 22991, heur = -9.0, depth = 9
iter = 15476, queue = 22991, heur = -9.0, depth = 9
iter = 15477, queue = 22992, heur = -9.0, depth = 9
iter = 15478, queue = 22993, heur = -9.0, depth = 9
iter = 15479, queue = 22993, heur = -9.0, depth = 9
iter = 15480, queue = 22996, heur = -9.0, depth = 9
iter = 15481, queue = 22997, heur = -9.0, depth = 9
iter = 15482, queue = 23000, heur = -9.0, depth = 9
iter = 15483, queue = 23003, heur = -9.0, depth = 9
iter = 15484, queue = 23004, heur = -9.0, depth = 9
iter = 15485, queue = 23006, heur = -9.0, depth = 9
iter = 15486, queue = 23005, heur = -9.0, depth = 9
iter = 15487, queue = 23005, heur = -9.0, depth = 9
iter = 15488, queue = 23008, heur = -9.0, depth = 9
iter = 15489, queue = 23009, heur = -9.0, depth = 9
iter = 15490, queue = 23008, heur = -9.0, depth = 9
iter = 15491, queue = 23009, heur = -9.0, depth = 9
iter = 15492, queue = 23012, heur = -9.0, depth = 9
iter = 15493, queue = 23011, heur = -9.0, depth = 9
iter = 15494, queue = 23014, heur = -9.0, depth = 9
iter = 15495, queue = 23017, heur = -9.0, depth = 9
iter = 15496, queue = 23016, heur = -9.0, depth = 9
iter = 15497, queue = 23019, heur = -9.0, depth = 9
iter = 15498, queue = 23018, heur = -9.0, depth = 9
iter = 15499, queue = 23017, heur = -9.0, depth = 9
iter = 15500, queue = 23018, heur = -9.0, depth = 9
iter = 15501, queue = 23017, heur = -9.0, depth = 9
iter = 15502, queue = 23019, heur = -9.0, depth = 9
iter = 15503, queue = 23018, heur = -9.0, depth = 9
iter = 15504, queue = 23019, heur = -9.0, depth = 10
iter = 15505, queue = 23020, heur = -9.0, depth = 9
iter = 15506, queue = 23023, heur = -9.0, depth = 10
iter = 15507, queue = 23024, heur = -9.0, depth = 9
iter = 15508, queue = 23024, heur = -9.0, depth = 9
iter = 15509, queue = 23026, heur = -9.0, depth = 9
iter = 15510, queue = 23029, heur = -9.0, depth = 9
iter = 15511, queue = 23030, heur = -9.0, depth = 9
iter = 15512, queue = 23031, heur = -9.0, depth = 9
iter = 15513, queue = 23031, heur = -9.0, depth = 9
iter = 15514, queue = 23031, heur = -9.0, depth = 9
iter = 15515, queue = 23032, heur = -9.0, depth = 9
```

```
iter = 15516, queue = 23033, heur = -9.0, depth = 9
iter = 15517, queue = 23034, heur = -9.0, depth = 9
iter = 15518, queue = 23034, heur = -9.0, depth = 10
iter = 15519, queue = 23036, heur = -9.0, depth = 10
iter = 15520, queue = 23036, heur = -9.0, depth = 9
iter = 15521, queue = 23035, heur = -9.0, depth = 9
iter = 15522, queue = 23037, heur = -9.0, depth = 9
iter = 15523, queue = 23038, heur = -9.0, depth = 9
iter = 15524, queue = 23038, heur = -9.0, depth = 9
iter = 15525, queue = 23037, heur = -9.0, depth = 9
iter = 15526, queue = 23039, heur = -9.0, depth = 9
iter = 15527, queue = 23041, heur = -9.0, depth = 9
iter = 15528, queue = 23042, heur = -9.0, depth = 9
iter = 15529, queue = 23041, heur = -9.0, depth = 9
iter = 15530, queue = 23043, heur = -9.0, depth = 9
iter = 15531, queue = 23044, heur = -9.0, depth = 9
iter = 15532, queue = 23045, heur = -9.0, depth = 9
iter = 15533, queue = 23047, heur = -9.0, depth = 9
iter = 15534, queue = 23047, heur = -9.0, depth = 9
iter = 15535, queue = 23050, heur = -9.0, depth = 10
iter = 15536, queue = 23052, heur = -9.0, depth = 9
iter = 15537, queue = 23053, heur = -9.0, depth = 9
iter = 15538, queue = 23055, heur = -9.0, depth = 10
iter = 15539, queue = 23057, heur = -9.0, depth = 9
iter = 15540, queue = 23058, heur = -9.0, depth = 9
iter = 15541, queue = 23059, heur = -9.0, depth = 9
iter = 15542, queue = 23058, heur = -9.0, depth = 9
iter = 15543, queue = 23058, heur = -9.0, depth = 10
iter = 15544, queue = 23059, heur = -9.0, depth = 10
iter = 15545, queue = 23059, heur = -9.0, depth = 9
iter = 15546, queue = 23058, heur = -9.0, depth = 9
iter = 15547, queue = 23059, heur = -9.0, depth = 10
iter = 15548, queue = 23060, heur = -9.0, depth = 9
iter = 15549, queue = 23063, heur = -9.0, depth = 9
iter = 15550, queue = 23066, heur = -9.0, depth = 10
iter = 15551, queue = 23066, heur = -9.0, depth = 9
iter = 15552, queue = 23065, heur = -9.0, depth = 9
iter = 15553, queue = 23066, heur = -9.0, depth = 9
iter = 15554, queue = 23068, heur = -9.0, depth = 9
iter = 15555, queue = 23068, heur = -9.0, depth = 9
iter = 15556, queue = 23070, heur = -9.0, depth = 9
iter = 15557, queue = 23071, heur = -9.0, depth = 10
iter = 15558, queue = 23074, heur = -9.0, depth = 9
iter = 15559, queue = 23075, heur = -9.0, depth = 9
iter = 15560, queue = 23075, heur = -9.0, depth = 9
iter = 15561, queue = 23075, heur = -9.0, depth = 9
iter = 15562, queue = 23078, heur = -9.0, depth = 9
iter = 15563, queue = 23080, heur = -9.0, depth = 9
iter = 15564, queue = 23083, heur = -9.0, depth = 9
iter = 15565, queue = 23084, heur = -9.0, depth = 9
iter = 15566, queue = 23085, heur = -9.0, depth = 9
iter = 15567, queue = 23088, heur = -9.0, depth = 9
iter = 15568, queue = 23089, heur = -9.0, depth = 9
iter = 15569, queue = 23089, heur = -9.0, depth = 10
iter = 15570, queue = 23090, heur = -9.0, depth = 9
iter = 15571, queue = 23092, heur = -9.0, depth = 9
iter = 15572, queue = 23094, heur = -9.0, depth = 9
iter = 15573, queue = 23094, heur = -9.0, depth = 9
iter = 15574, queue = 23095, heur = -9.0, depth = 9
```

```
iter = 15575, queue = 23097, heur = -9.0, depth = 9
iter = 15576, queue = 23098, heur = -9.0, depth = 9
iter = 15577, queue = 23099, heur = -9.0, depth = 10
iter = 15578, queue = 23101, heur = -9.0, depth = 9
iter = 15579, queue = 23102, heur = -9.0, depth = 9
iter = 15580, queue = 23105, heur = -9.0, depth = 10
iter = 15581, queue = 23105, heur = -9.0, depth = 9
iter = 15582, queue = 23107, heur = -9.0, depth = 9
iter = 15583, queue = 23108, heur = -9.0, depth = 9
iter = 15584, queue = 23111, heur = -9.0, depth = 10
iter = 15585, queue = 23114, heur = -9.0, depth = 9
iter = 15586, queue = 23117, heur = -9.0, depth = 9
iter = 15587, queue = 23118, heur = -9.0, depth = 10
iter = 15588, queue = 23119, heur = -9.0, depth = 9
iter = 15589, queue = 23118, heur = -9.0, depth = 9
iter = 15590, queue = 23119, heur = -9.0, depth = 10
iter = 15591, queue = 23122, heur = -9.0, depth = 9
iter = 15592, queue = 23121, heur = -9.0, depth = 10
iter = 15593, queue = 23121, heur = -9.0, depth = 9
iter = 15594, queue = 23123, heur = -9.0, depth = 9
iter = 15595, queue = 23122, heur = -9.0, depth = 10
iter = 15596, queue = 23125, heur = -9.0, depth = 9
iter = 15597, queue = 23124, heur = -9.0, depth = 9
iter = 15598, queue = 23126, heur = -9.0, depth = 9
iter = 15599, queue = 23126, heur = -9.0, depth = 9
iter = 15600, queue = 23128, heur = -9.0, depth = 9
iter = 15601, queue = 23129, heur = -9.0, depth = 9
iter = 15602, queue = 23130, heur = -9.0, depth = 9
iter = 15603, queue = 23132, heur = -9.0, depth = 9
iter = 15604, queue = 23132, heur = -9.0, depth = 9
iter = 15605, queue = 23133, heur = -9.0, depth = 9
iter = 15606, queue = 23133, heur = -9.0, depth = 10
iter = 15607, queue = 23132, heur = -9.0, depth = 10
iter = 15608, queue = 23135, heur = -9.0, depth = 9
iter = 15609, queue = 23136, heur = -9.0, depth = 9
iter = 15610, queue = 23137, heur = -9.0, depth = 9
iter = 15611, queue = 23139, heur = -9.0, depth = 9
iter = 15612, queue = 23140, heur = -9.0, depth = 9
iter = 15613, queue = 23139, heur = -9.0, depth = 9
iter = 15614, queue = 23140, heur = -9.0, depth = 9
iter = 15615, queue = 23141, heur = -9.0, depth = 9
iter = 15616, queue = 23142, heur = -9.0, depth = 9
iter = 15617, queue = 23143, heur = -9.0, depth = 9
iter = 15618, queue = 23146, heur = -9.0, depth = 9
iter = 15619, queue = 23146, heur = -9.0, depth = 9
iter = 15620, queue = 23148, heur = -9.0, depth = 9
iter = 15621, queue = 23149, heur = -9.0, depth = 9
iter = 15622, queue = 23151, heur = -9.0, depth = 10
iter = 15623, queue = 23154, heur = -9.0, depth = 9
iter = 15624, queue = 23153, heur = -9.0, depth = 9
iter = 15625, queue = 23154, heur = -9.0, depth = 9
iter = 15626, queue = 23155, heur = -9.0, depth = 9
iter = 15627, queue = 23156, heur = -9.0, depth = 9
iter = 15628, queue = 23157, heur = -9.0, depth = 9
iter = 15629, queue = 23158, heur = -9.0, depth = 9
iter = 15630, queue = 23160, heur = -9.0, depth = 9
iter = 15631, queue = 23161, heur = -9.0, depth = 9
iter = 15632, queue = 23164, heur = -9.0, depth = 9
iter = 15633, queue = 23167, heur = -9.0, depth = 9
```

```
iter = 15634, queue = 23168, heur = -9.0, depth = 10
iter = 15635, queue = 23171, heur = -9.0, depth = 9
iter = 15636, queue = 23173, heur = -9.0, depth = 9
iter = 15637, queue = 23175, heur = -9.0, depth = 9
iter = 15638, queue = 23177, heur = -9.0, depth = 9
iter = 15639, queue = 23178, heur = -9.0, depth = 9
iter = 15640, queue = 23177, heur = -9.0, depth = 9
iter = 15641, queue = 23178, heur = -9.0, depth = 9
iter = 15642, queue = 23181, heur = -9.0, depth = 11
iter = 15643, queue = 23184, heur = -9.0, depth = 9
iter = 15644, queue = 23187, heur = -9.0, depth = 11
iter = 15645, queue = 23190, heur = -9.0, depth = 11
iter = 15646, queue = 23193, heur = -9.0, depth = 9
iter = 15647, queue = 23193, heur = -9.0, depth = 9
iter = 15648, queue = 23194, heur = -9.0, depth = 9
iter = 15649, queue = 23197, heur = -9.0, depth = 9
iter = 15650, queue = 23200, heur = -9.0, depth = 9
iter = 15651, queue = 23202, heur = -9.0, depth = 9
iter = 15652, queue = 23205, heur = -9.0, depth = 9
iter = 15653, queue = 23205, heur = -9.0, depth = 9
iter = 15654, queue = 23204, heur = -9.0, depth = 9
iter = 15655, queue = 23204, heur = -9.0, depth = 9
iter = 15656, queue = 23203, heur = -9.0, depth = 9
iter = 15657, queue = 23206, heur = -9.0, depth = 9
iter = 15658, queue = 23207, heur = -9.0, depth = 9
iter = 15659, queue = 23208, heur = -9.0, depth = 9
iter = 15660, queue = 23209, heur = -9.0, depth = 9
iter = 15661, queue = 23210, heur = -9.0, depth = 9
iter = 15662, queue = 23212, heur = -9.0, depth = 9
iter = 15663, queue = 23215, heur = -9.0, depth = 9
iter = 15664, queue = 23216, heur = -9.0, depth = 9
iter = 15665, queue = 23218, heur = -9.0, depth = 9
iter = 15666, queue = 23219, heur = -9.0, depth = 9
iter = 15667, queue = 23221, heur = -9.0, depth = 9
iter = 15668, queue = 23221, heur = -9.0, depth = 9
iter = 15669, queue = 23224, heur = -9.0, depth = 9
iter = 15670, queue = 23225, heur = -9.0, depth = 10
iter = 15671, queue = 23228, heur = -9.0, depth = 10
iter = 15672, queue = 23230, heur = -9.0, depth = 9
iter = 15673, queue = 23231, heur = -9.0, depth = 10
iter = 15674, queue = 23232, heur = -9.0, depth = 10
iter = 15675, queue = 23231, heur = -9.0, depth = 9
iter = 15676, queue = 23231, heur = -9.0, depth = 9
iter = 15677, queue = 23232, heur = -9.0, depth = 9
iter = 15678, queue = 23233, heur = -9.0, depth = 10
iter = 15679, queue = 23232, heur = -9.0, depth = 9
iter = 15680, queue = 23233, heur = -9.0, depth = 9
iter = 15681, queue = 23232, heur = -9.0, depth = 9
iter = 15682, queue = 23231, heur = -9.0, depth = 9
iter = 15683, queue = 23232, heur = -9.0, depth = 9
iter = 15684, queue = 23235, heur = -9.0, depth = 9
iter = 15685, queue = 23236, heur = -9.0, depth = 9
iter = 15686, queue = 23237, heur = -9.0, depth = 9
iter = 15687, queue = 23240, heur = -9.0, depth = 9
iter = 15688, queue = 23243, heur = -9.0, depth = 9
iter = 15689, queue = 23244, heur = -9.0, depth = 9
iter = 15690, queue = 23246, heur = -9.0, depth = 9
iter = 15691, queue = 23247, heur = -9.0, depth = 9
iter = 15692, queue = 23248, heur = -9.0, depth = 10
```

```
iter = 15693, queue = 23251, heur = -9.0, depth = 9
iter = 15694, queue = 23252, heur = -9.0, depth = 9
iter = 15695, queue = 23253, heur = -9.0, depth = 9
iter = 15696, queue = 23254, heur = -9.0, depth = 9
iter = 15697, queue = 23255, heur = -9.0, depth = 9
iter = 15698, queue = 23256, heur = -9.0, depth = 9
iter = 15699, queue = 23259, heur = -9.0, depth = 10
iter = 15700, queue = 23261, heur = -9.0, depth = 9
iter = 15701, queue = 23262, heur = -9.0, depth = 9
iter = 15702, queue = 23264, heur = -9.0, depth = 9
iter = 15703, queue = 23267, heur = -9.0, depth = 9
iter = 15704, queue = 23268, heur = -9.0, depth = 9
iter = 15705, queue = 23269, heur = -9.0, depth = 9
iter = 15706, queue = 23270, heur = -9.0, depth = 9
iter = 15707, queue = 23273, heur = -9.0, depth = 9
iter = 15708, queue = 23274, heur = -9.0, depth = 9
iter = 15709, queue = 23277, heur = -9.0, depth = 9
iter = 15710, queue = 23280, heur = -9.0, depth = 9
iter = 15711, queue = 23283, heur = -9.0, depth = 9
iter = 15712, queue = 23284, heur = -9.0, depth = 9
iter = 15713, queue = 23285, heur = -9.0, depth = 9
iter = 15714, queue = 23286, heur = -9.0, depth = 9
iter = 15715, queue = 23287, heur = -9.0, depth = 9
iter = 15716, queue = 23288, heur = -9.0, depth = 9
iter = 15717, queue = 23289, heur = -9.0, depth = 9
iter = 15718, queue = 23290, heur = -9.0, depth = 9
iter = 15719, queue = 23290, heur = -9.0, depth = 9
iter = 15720, queue = 23293, heur = -9.0, depth = 9
iter = 15721, queue = 23292, heur = -9.0, depth = 9
iter = 15722, queue = 23293, heur = -9.0, depth = 9
iter = 15723, queue = 23296, heur = -9.0, depth = 9
iter = 15724, queue = 23295, heur = -9.0, depth = 9
iter = 15725, queue = 23296, heur = -9.0, depth = 9
iter = 15726, queue = 23298, heur = -9.0, depth = 9
iter = 15727, queue = 23300, heur = -9.0, depth = 9
iter = 15728, queue = 23301, heur = -9.0, depth = 9
iter = 15729, queue = 23302, heur = -9.0, depth = 9
iter = 15730, queue = 23305, heur = -9.0, depth = 9
iter = 15731, queue = 23307, heur = -9.0, depth = 9
iter = 15732, queue = 23310, heur = -9.0, depth = 9
iter = 15733, queue = 23313, heur = -9.0, depth = 9
iter = 15734, queue = 23315, heur = -9.0, depth = 9
iter = 15735, queue = 23316, heur = -9.0, depth = 9
iter = 15736, queue = 23315, heur = -9.0, depth = 9
iter = 15737, queue = 23318, heur = -9.0, depth = 9
iter = 15738, queue = 23321, heur = -9.0, depth = 9
iter = 15739, queue = 23321, heur = -9.0, depth = 9
iter = 15740, queue = 23323, heur = -9.0, depth = 9
iter = 15741, queue = 23324, heur = -9.0, depth = 9
iter = 15742, queue = 23324, heur = -9.0, depth = 9
iter = 15743, queue = 23324, heur = -9.0, depth = 9
iter = 15744, queue = 23324, heur = -9.0, depth = 9
iter = 15745, queue = 23324, heur = -9.0, depth = 9
iter = 15746, queue = 23325, heur = -9.0, depth = 9
iter = 15747, queue = 23327, heur = -9.0, depth = 9
iter = 15748, queue = 23328, heur = -9.0, depth = 9
iter = 15749, queue = 23327, heur = -9.0, depth = 9
iter = 15750, queue = 23326, heur = -9.0, depth = 9
iter = 15751, queue = 23325, heur = -9.0, depth = 9
```

```
iter = 15752, queue = 23327, heur = -9.0, depth = 9
iter = 15753, queue = 23327, heur = -9.0, depth = 9
iter = 15754, queue = 23327, heur = -9.0, depth = 9
iter = 15755, queue = 23330, heur = -9.0, depth = 9
iter = 15756, queue = 23331, heur = -9.0, depth = 9
iter = 15757, queue = 23331, heur = -9.0, depth = 9
iter = 15758, queue = 23331, heur = -9.0, depth = 9
iter = 15759, queue = 23333, heur = -9.0, depth = 9
iter = 15760, queue = 23336, heur = -9.0, depth = 9
iter = 15761, queue = 23337, heur = -9.0, depth = 9
iter = 15762, queue = 23339, heur = -9.0, depth = 9
iter = 15763, queue = 23342, heur = -9.0, depth = 9
iter = 15764, queue = 23344, heur = -9.0, depth = 9
iter = 15765, queue = 23345, heur = -9.0, depth = 9
iter = 15766, queue = 23344, heur = -9.0, depth = 9
iter = 15767, queue = 23346, heur = -9.0, depth = 9
iter = 15768, queue = 23348, heur = -9.0, depth = 10
iter = 15769, queue = 23349, heur = -9.0, depth = 9
iter = 15770, queue = 23349, heur = -9.0, depth = 9
iter = 15771, queue = 23352, heur = -9.0, depth = 9
iter = 15772, queue = 23355, heur = -9.0, depth = 9
iter = 15773, queue = 23356, heur = -9.0, depth = 9
iter = 15774, queue = 23357, heur = -9.0, depth = 9
iter = 15775, queue = 23358, heur = -9.0, depth = 9
iter = 15776, queue = 23361, heur = -9.0, depth = 9
iter = 15777, queue = 23363, heur = -9.0, depth = 9
iter = 15778, queue = 23366, heur = -9.0, depth = 9
iter = 15779, queue = 23366, heur = -9.0, depth = 9
iter = 15780, queue = 23367, heur = -9.0, depth = 9
iter = 15781, queue = 23368, heur = -9.0, depth = 9
iter = 15782, queue = 23370, heur = -9.0, depth = 9
iter = 15783, queue = 23371, heur = -9.0, depth = 9
iter = 15784, queue = 23372, heur = -9.0, depth = 9
iter = 15785, queue = 23373, heur = -9.0, depth = 9
iter = 15786, queue = 23374, heur = -9.0, depth = 9
iter = 15787, queue = 23377, heur = -9.0, depth = 9
iter = 15788, queue = 23380, heur = -9.0, depth = 9
iter = 15789, queue = 23382, heur = -9.0, depth = 9
iter = 15790, queue = 23385, heur = -9.0, depth = 9
iter = 15791, queue = 23386, heur = -9.0, depth = 9
iter = 15792, queue = 23387, heur = -9.0, depth = 9
iter = 15793, queue = 23390, heur = -9.0, depth = 9
iter = 15794, queue = 23391, heur = -9.0, depth = 9
iter = 15795, queue = 23394, heur = -9.0, depth = 9
iter = 15796, queue = 23394, heur = -9.0, depth = 9
iter = 15797, queue = 23395, heur = -9.0, depth = 9
iter = 15798, queue = 23398, heur = -9.0, depth = 9
iter = 15799, queue = 23399, heur = -9.0, depth = 9
iter = 15800, queue = 23400, heur = -9.0, depth = 9
iter = 15801, queue = 23401, heur = -9.0, depth = 9
iter = 15802, queue = 23403, heur = -9.0, depth = 9
iter = 15803, queue = 23404, heur = -9.0, depth = 9
iter = 15804, queue = 23406, heur = -9.0, depth = 9
iter = 15805, queue = 23408, heur = -9.0, depth = 9
iter = 15806, queue = 23409, heur = -9.0, depth = 9
iter = 15807, queue = 23410, heur = -9.0, depth = 9
iter = 15808, queue = 23413, heur = -9.0, depth = 9
iter = 15809, queue = 23414, heur = -9.0, depth = 9
iter = 15810, queue = 23416, heur = -9.0, depth = 9
```

```
iter = 15811, queue = 23416, heur = -9.0, depth = 9
iter = 15812, queue = 23415, heur = -9.0, depth = 9
iter = 15813, queue = 23416, heur = -9.0, depth = 9
iter = 15814, queue = 23419, heur = -9.0, depth = 9
iter = 15815, queue = 23422, heur = -9.0, depth = 9
iter = 15816, queue = 23423, heur = -9.0, depth = 9
iter = 15817, queue = 23425, heur = -9.0, depth = 9
iter = 15818, queue = 23426, heur = -9.0, depth = 9
iter = 15819, queue = 23427, heur = -9.0, depth = 9
iter = 15820, queue = 23428, heur = -9.0, depth = 9
iter = 15821, queue = 23428, heur = -9.0, depth = 9
iter = 15822, queue = 23427, heur = -9.0, depth = 9
iter = 15823, queue = 23428, heur = -9.0, depth = 9
iter = 15824, queue = 23427, heur = -9.0, depth = 9
iter = 15825, queue = 23427, heur = -9.0, depth = 9
iter = 15826, queue = 23426, heur = -9.0, depth = 10
iter = 15827, queue = 23427, heur = -9.0, depth = 9
iter = 15828, queue = 23427, heur = -9.0, depth = 9
iter = 15829, queue = 23428, heur = -9.0, depth = 9
iter = 15830, queue = 23429, heur = -9.0, depth = 9
iter = 15831, queue = 23432, heur = -9.0, depth = 9
iter = 15832, queue = 23432, heur = -9.0, depth = 9
iter = 15833, queue = 23433, heur = -9.0, depth = 9
iter = 15834, queue = 23433, heur = -9.0, depth = 9
iter = 15835, queue = 23434, heur = -9.0, depth = 9
iter = 15836, queue = 23435, heur = -9.0, depth = 9
iter = 15837, queue = 23434, heur = -9.0, depth = 9
iter = 15838, queue = 23435, heur = -9.0, depth = 10
iter = 15839, queue = 23436, heur = -9.0, depth = 9
iter = 15840, queue = 23437, heur = -9.0, depth = 9
iter = 15841, queue = 23440, heur = -9.0, depth = 10
iter = 15842, queue = 23441, heur = -9.0, depth = 9
iter = 15843, queue = 23444, heur = -9.0, depth = 9
iter = 15844, queue = 23445, heur = -9.0, depth = 9
iter = 15845, queue = 23447, heur = -9.0, depth = 9
iter = 15846, queue = 23449, heur = -9.0, depth = 10
iter = 15847, queue = 23448, heur = -9.0, depth = 9
iter = 15848, queue = 23449, heur = -9.0, depth = 9
iter = 15849, queue = 23450, heur = -9.0, depth = 10
iter = 15850, queue = 23451, heur = -9.0, depth = 9
iter = 15851, queue = 23453, heur = -9.0, depth = 9
iter = 15852, queue = 23455, heur = -9.0, depth = 9
iter = 15853, queue = 23457, heur = -9.0, depth = 10
iter = 15854, queue = 23459, heur = -9.0, depth = 9
iter = 15855, queue = 23461, heur = -9.0, depth = 9
iter = 15856, queue = 23462, heur = -9.0, depth = 10
iter = 15857, queue = 23465, heur = -9.0, depth = 9
iter = 15858, queue = 23466, heur = -9.0, depth = 9
iter = 15859, queue = 23469, heur = -9.0, depth = 9
iter = 15860, queue = 23470, heur = -9.0, depth = 9
iter = 15861, queue = 23471, heur = -9.0, depth = 9
iter = 15862, queue = 23474, heur = -9.0, depth = 10
iter = 15863, queue = 23477, heur = -9.0, depth = 9
iter = 15864, queue = 23480, heur = -9.0, depth = 9
iter = 15865, queue = 23481, heur = -9.0, depth = 9
iter = 15866, queue = 23480, heur = -9.0, depth = 9
iter = 15867, queue = 23481, heur = -9.0, depth = 9
iter = 15868, queue = 23482, heur = -9.0, depth = 10
iter = 15869, queue = 23484, heur = -9.0, depth = 9
```

```
iter = 15870, queue = 23484, heur = -9.0, depth = 9
iter = 15871, queue = 23487, heur = -9.0, depth = 9
iter = 15872, queue = 23488, heur = -9.0, depth = 9
iter = 15873, queue = 23489, heur = -9.0, depth = 9
iter = 15874, queue = 23489, heur = -9.0, depth = 9
iter = 15875, queue = 23489, heur = -9.0, depth = 9
iter = 15876, queue = 23491, heur = -9.0, depth = 9
iter = 15877, queue = 23494, heur = -9.0, depth = 9
iter = 15878, queue = 23493, heur = -9.0, depth = 9
iter = 15879, queue = 23494, heur = -9.0, depth = 9
iter = 15880, queue = 23496, heur = -9.0, depth = 9
iter = 15881, queue = 23497, heur = -9.0, depth = 9
iter = 15882, queue = 23498, heur = -9.0, depth = 9
iter = 15883, queue = 23499, heur = -9.0, depth = 9
iter = 15884, queue = 23498, heur = -9.0, depth = 9
iter = 15885, queue = 23497, heur = -9.0, depth = 9
iter = 15886, queue = 23498, heur = -9.0, depth = 9
iter = 15887, queue = 23498, heur = -9.0, depth = 9
iter = 15888, queue = 23501, heur = -9.0, depth = 9
iter = 15889, queue = 23502, heur = -9.0, depth = 9
iter = 15890, queue = 23505, heur = -9.0, depth = 9
iter = 15891, queue = 23506, heur = -9.0, depth = 9
iter = 15892, queue = 23507, heur = -9.0, depth = 10
iter = 15893, queue = 23508, heur = -9.0, depth = 9
iter = 15894, queue = 23509, heur = -9.0, depth = 9
iter = 15895, queue = 23509, heur = -9.0, depth = 9
iter = 15896, queue = 23512, heur = -9.0, depth = 9
iter = 15897, queue = 23514, heur = -9.0, depth = 9
iter = 15898, queue = 23515, heur = -9.0, depth = 9
iter = 15899, queue = 23517, heur = -9.0, depth = 9
iter = 15900, queue = 23517, heur = -9.0, depth = 10
iter = 15901, queue = 23519, heur = -9.0, depth = 9
iter = 15902, queue = 23520, heur = -9.0, depth = 9
iter = 15903, queue = 23521, heur = -9.0, depth = 9
iter = 15904, queue = 23524, heur = -9.0, depth = 9
iter = 15905, queue = 23523, heur = -9.0, depth = 9
iter = 15906, queue = 23523, heur = -9.0, depth = 9
iter = 15907, queue = 23524, heur = -9.0, depth = 9
iter = 15908, queue = 23525, heur = -9.0, depth = 9
iter = 15909, queue = 23524, heur = -9.0, depth = 9
iter = 15910, queue = 23526, heur = -9.0, depth = 9
iter = 15911, queue = 23526, heur = -9.0, depth = 9
iter = 15912, queue = 23527, heur = -9.0, depth = 9
iter = 15913, queue = 23528, heur = -9.0, depth = 9
iter = 15914, queue = 23528, heur = -9.0, depth = 9
iter = 15915, queue = 23529, heur = -9.0, depth = 9
iter = 15916, queue = 23530, heur = -9.0, depth = 10
iter = 15917, queue = 23533, heur = -9.0, depth = 9
iter = 15918, queue = 23535, heur = -9.0, depth = 10
iter = 15919, queue = 23537, heur = -9.0, depth = 9
iter = 15920, queue = 23538, heur = -9.0, depth = 9
iter = 15921, queue = 23537, heur = -9.0, depth = 9
iter = 15922, queue = 23537, heur = -9.0, depth = 9
iter = 15923, queue = 23538, heur = -9.0, depth = 9
iter = 15924, queue = 23541, heur = -9.0, depth = 9
iter = 15925, queue = 23542, heur = -9.0, depth = 9
iter = 15926, queue = 23545, heur = -9.0, depth = 9
iter = 15927, queue = 23546, heur = -9.0, depth = 9
iter = 15928, queue = 23549, heur = -9.0, depth = 9
```

```
iter = 15929, queue = 23550, heur = -9.0, depth = 9
iter = 15930, queue = 23549, heur = -9.0, depth = 9
iter = 15931, queue = 23550, heur = -9.0, depth = 9
iter = 15932, queue = 23553, heur = -9.0, depth = 9
iter = 15933, queue = 23555, heur = -9.0, depth = 9
iter = 15934, queue = 23558, heur = -9.0, depth = 9
iter = 15935, queue = 23559, heur = -9.0, depth = 9
iter = 15936, queue = 23560, heur = -9.0, depth = 9
iter = 15937, queue = 23563, heur = -9.0, depth = 9
iter = 15938, queue = 23562, heur = -9.0, depth = 9
iter = 15939, queue = 23563, heur = -9.0, depth = 9
iter = 15940, queue = 23562, heur = -9.0, depth = 9
iter = 15941, queue = 23565, heur = -9.0, depth = 9
iter = 15942, queue = 23568, heur = -9.0, depth = 9
iter = 15943, queue = 23569, heur = -9.0, depth = 9
iter = 15944, queue = 23572, heur = -9.0, depth = 9
iter = 15945, queue = 23574, heur = -9.0, depth = 9
iter = 15946, queue = 23575, heur = -9.0, depth = 9
iter = 15947, queue = 23576, heur = -9.0, depth = 9
iter = 15948, queue = 23577, heur = -9.0, depth = 9
iter = 15949, queue = 23577, heur = -9.0, depth = 9
iter = 15950, queue = 23578, heur = -9.0, depth = 10
iter = 15951, queue = 23579, heur = -9.0, depth = 10
iter = 15952, queue = 23581, heur = -9.0, depth = 9
iter = 15953, queue = 23581, heur = -9.0, depth = 9
iter = 15954, queue = 23582, heur = -9.0, depth = 10
iter = 15955, queue = 23583, heur = -9.0, depth = 9
iter = 15956, queue = 23583, heur = -9.0, depth = 9
iter = 15957, queue = 23584, heur = -9.0, depth = 9
iter = 15958, queue = 23586, heur = -9.0, depth = 10
iter = 15959, queue = 23585, heur = -9.0, depth = 9
iter = 15960, queue = 23586, heur = -9.0, depth = 10
iter = 15961, queue = 23585, heur = -9.0, depth = 9
iter = 15962, queue = 23584, heur = -9.0, depth = 9
iter = 15963, queue = 23587, heur = -9.0, depth = 9
iter = 15964, queue = 23588, heur = -9.0, depth = 9
iter = 15965, queue = 23589, heur = -9.0, depth = 9
iter = 15966, queue = 23590, heur = -9.0, depth = 10
iter = 15967, queue = 23593, heur = -9.0, depth = 12
iter = 15968, queue = 23594, heur = -9.0, depth = 9
iter = 15969, queue = 23595, heur = -9.0, depth = 10
iter = 15970, queue = 23596, heur = -9.0, depth = 10
iter = 15971, queue = 23597, heur = -9.0, depth = 9
iter = 15972, queue = 23600, heur = -9.0, depth = 9
iter = 15973, queue = 23601, heur = -9.0, depth = 9
iter = 15974, queue = 23604, heur = -9.0, depth = 9
iter = 15975, queue = 23607, heur = -9.0, depth = 9
iter = 15976, queue = 23608, heur = -9.0, depth = 9
iter = 15977, queue = 23609, heur = -9.0, depth = 9
iter = 15978, queue = 23610, heur = -9.0, depth = 9
iter = 15979, queue = 23611, heur = -9.0, depth = 9
iter = 15980, queue = 23610, heur = -9.0, depth = 9
iter = 15981, queue = 23611, heur = -9.0, depth = 9
iter = 15982, queue = 23612, heur = -9.0, depth = 9
iter = 15983, queue = 23613, heur = -9.0, depth = 9
iter = 15984, queue = 23614, heur = -9.0, depth = 9
iter = 15985, queue = 23615, heur = -9.0, depth = 9
iter = 15986, queue = 23616, heur = -9.0, depth = 9
iter = 15987, queue = 23616, heur = -9.0, depth = 9
```

```
iter = 15988, queue = 23617, heur = -9.0, depth = 9
iter = 15989, queue = 23620, heur = -9.0, depth = 9
iter = 15990, queue = 23621, heur = -9.0, depth = 9
iter = 15991, queue = 23620, heur = -9.0, depth = 9
iter = 15992, queue = 23621, heur = -9.0, depth = 9
iter = 15993, queue = 23620, heur = -9.0, depth = 9
iter = 15994, queue = 23622, heur = -9.0, depth = 9
iter = 15995, queue = 23623, heur = -9.0, depth = 9
iter = 15996, queue = 23625, heur = -9.0, depth = 9
iter = 15997, queue = 23626, heur = -9.0, depth = 9
iter = 15998, queue = 23626, heur = -9.0, depth = 9
iter = 15999, queue = 23627, heur = -9.0, depth = 9
iter = 16000, queue = 23628, heur = -9.0, depth = 9
iter = 16001, queue = 23631, heur = -9.0, depth = 9
iter = 16002, queue = 23634, heur = -9.0, depth = 9
iter = 16003, queue = 23634, heur = -9.0, depth = 9
iter = 16004, queue = 23634, heur = -9.0, depth = 9
iter = 16005, queue = 23635, heur = -9.0, depth = 9
iter = 16006, queue = 23635, heur = -9.0, depth = 9
iter = 16007, queue = 23636, heur = -9.0, depth = 9
iter = 16008, queue = 23637, heur = -9.0, depth = 9
iter = 16009, queue = 23640, heur = -9.0, depth = 9
iter = 16010, queue = 23643, heur = -9.0, depth = 9
iter = 16011, queue = 23645, heur = -9.0, depth = 9
iter = 16012, queue = 23648, heur = -9.0, depth = 9
iter = 16013, queue = 23650, heur = -9.0, depth = 9
iter = 16014, queue = 23651, heur = -9.0, depth = 9
iter = 16015, queue = 23652, heur = -9.0, depth = 9
iter = 16016, queue = 23653, heur = -9.0, depth = 9
iter = 16017, queue = 23654, heur = -9.0, depth = 9
iter = 16018, queue = 23657, heur = -9.0, depth = 9
iter = 16019, queue = 23658, heur = -9.0, depth = 9
iter = 16020, queue = 23658, heur = -9.0, depth = 9
iter = 16021, queue = 23658, heur = -9.0, depth = 9
iter = 16022, queue = 23657, heur = -9.0, depth = 12
iter = 16023, queue = 23658, heur = -9.0, depth = 9
iter = 16024, queue = 23661, heur = -9.0, depth = 9
iter = 16025, queue = 23662, heur = -9.0, depth = 9
iter = 16026, queue = 23664, heur = -9.0, depth = 9
iter = 16027, queue = 23667, heur = -9.0, depth = 9
iter = 16028, queue = 23668, heur = -9.0, depth = 9
iter = 16029, queue = 23670, heur = -9.0, depth = 9
iter = 16030, queue = 23671, heur = -9.0, depth = 10
iter = 16031, queue = 23673, heur = -9.0, depth = 9
iter = 16032, queue = 23674, heur = -9.0, depth = 9
iter = 16033, queue = 23675, heur = -9.0, depth = 9
iter = 16034, queue = 23676, heur = -9.0, depth = 9
iter = 16035, queue = 23678, heur = -9.0, depth = 9
iter = 16036, queue = 23679, heur = -9.0, depth = 9
iter = 16037, queue = 23681, heur = -9.0, depth = 9
iter = 16038, queue = 23682, heur = -9.0, depth = 9
iter = 16039, queue = 23683, heur = -9.0, depth = 9
iter = 16040, queue = 23685, heur = -9.0, depth = 9
iter = 16041, queue = 23686, heur = -9.0, depth = 9
iter = 16042, queue = 23688, heur = -9.0, depth = 9
iter = 16043, queue = 23689, heur = -9.0, depth = 9
iter = 16044, queue = 23690, heur = -9.0, depth = 9
iter = 16045, queue = 23691, heur = -9.0, depth = 9
iter = 16046, queue = 23692, heur = -9.0, depth = 9
```

```
iter = 16047, queue = 23695, heur = -9.0, depth = 9
iter = 16048, queue = 23698, heur = -9.0, depth = 9
iter = 16049, queue = 23700, heur = -9.0, depth = 9
iter = 16050, queue = 23701, heur = -9.0, depth = 9
iter = 16051, queue = 23702, heur = -9.0, depth = 9
iter = 16052, queue = 23704, heur = -9.0, depth = 10
iter = 16053, queue = 23705, heur = -9.0, depth = 10
iter = 16054, queue = 23706, heur = -9.0, depth = 9
iter = 16055, queue = 23707, heur = -9.0, depth = 9
iter = 16056, queue = 23708, heur = -9.0, depth = 9
iter = 16057, queue = 23709, heur = -9.0, depth = 9
iter = 16058, queue = 23710, heur = -9.0, depth = 9
iter = 16059, queue = 23709, heur = -9.0, depth = 9
iter = 16060, queue = 23710, heur = -9.0, depth = 9
iter = 16061, queue = 23709, heur = -9.0, depth = 10
iter = 16062, queue = 23709, heur = -9.0, depth = 9
iter = 16063, queue = 23709, heur = -9.0, depth = 9
iter = 16064, queue = 23710, heur = -9.0, depth = 9
iter = 16065, queue = 23710, heur = -9.0, depth = 9
iter = 16066, queue = 23712, heur = -9.0, depth = 9
iter = 16067, queue = 23713, heur = -9.0, depth = 9
iter = 16068, queue = 23714, heur = -9.0, depth = 10
iter = 16069, queue = 23713, heur = -9.0, depth = 9
iter = 16070, queue = 23714, heur = -9.0, depth = 9
iter = 16071, queue = 23714, heur = -9.0, depth = 9
iter = 16072, queue = 23717, heur = -9.0, depth = 9
iter = 16073, queue = 23718, heur = -9.0, depth = 9
iter = 16074, queue = 23719, heur = -9.0, depth = 9
iter = 16075, queue = 23720, heur = -9.0, depth = 9
iter = 16076, queue = 23721, heur = -9.0, depth = 9
iter = 16077, queue = 23723, heur = -9.0, depth = 9
iter = 16078, queue = 23724, heur = -9.0, depth = 9
iter = 16079, queue = 23724, heur = -9.0, depth = 9
iter = 16080, queue = 23727, heur = -9.0, depth = 9
iter = 16081, queue = 23730, heur = -9.0, depth = 9
iter = 16082, queue = 23731, heur = -9.0, depth = 9
iter = 16083, queue = 23731, heur = -9.0, depth = 12
iter = 16084, queue = 23732, heur = -9.0, depth = 9
iter = 16085, queue = 23732, heur = -9.0, depth = 9
iter = 16086, queue = 23733, heur = -9.0, depth = 9
iter = 16087, queue = 23734, heur = -9.0, depth = 9
iter = 16088, queue = 23733, heur = -9.0, depth = 9
iter = 16089, queue = 23734, heur = -9.0, depth = 9
iter = 16090, queue = 23735, heur = -9.0, depth = 9
iter = 16091, queue = 23735, heur = -9.0, depth = 9
iter = 16092, queue = 23736, heur = -9.0, depth = 9
iter = 16093, queue = 23737, heur = -9.0, depth = 9
iter = 16094, queue = 23739, heur = -9.0, depth = 13
iter = 16095, queue = 23740, heur = -9.0, depth = 9
iter = 16096, queue = 23741, heur = -9.0, depth = 9
iter = 16097, queue = 23741, heur = -9.0, depth = 9
iter = 16098, queue = 23740, heur = -9.0, depth = 9
iter = 16099, queue = 23743, heur = -9.0, depth = 9
iter = 16100, queue = 23744, heur = -9.0, depth = 9
iter = 16101, queue = 23746, heur = -9.0, depth = 9
iter = 16102, queue = 23747, heur = -9.0, depth = 9
iter = 16103, queue = 23750, heur = -9.0, depth = 9
iter = 16104, queue = 23750, heur = -9.0, depth = 9
iter = 16105, queue = 23751, heur = -9.0, depth = 9
```

```
iter = 16106, queue = 23750, heur = -9.0, depth = 9
iter = 16107, queue = 23751, heur = -9.0, depth = 9
iter = 16108, queue = 23752, heur = -9.0, depth = 9
iter = 16109, queue = 23753, heur = -9.0, depth = 9
iter = 16110, queue = 23754, heur = -9.0, depth = 9
iter = 16111, queue = 23755, heur = -9.0, depth = 9
iter = 16112, queue = 23758, heur = -9.0, depth = 9
iter = 16113, queue = 23759, heur = -9.0, depth = 9
iter = 16114, queue = 23759, heur = -9.0, depth = 9
iter = 16115, queue = 23760, heur = -9.0, depth = 9
iter = 16116, queue = 23761, heur = -9.0, depth = 9
iter = 16117, queue = 23762, heur = -9.0, depth = 10
iter = 16118, queue = 23765, heur = -9.0, depth = 9
iter = 16119, queue = 23768, heur = -9.0, depth = 10
iter = 16120, queue = 23769, heur = -9.0, depth = 9
iter = 16121, queue = 23770, heur = -9.0, depth = 9
iter = 16122, queue = 23771, heur = -9.0, depth = 10
iter = 16123, queue = 23773, heur = -9.0, depth = 9
iter = 16124, queue = 23772, heur = -9.0, depth = 9
iter = 16125, queue = 23771, heur = -9.0, depth = 9
iter = 16126, queue = 23772, heur = -9.0, depth = 10
iter = 16127, queue = 23773, heur = -9.0, depth = 10
iter = 16128, queue = 23774, heur = -9.0, depth = 9
iter = 16129, queue = 23773, heur = -9.0, depth = 9
iter = 16130, queue = 23772, heur = -9.0, depth = 10
iter = 16131, queue = 23773, heur = -9.0, depth = 9
iter = 16132, queue = 23774, heur = -9.0, depth = 9
iter = 16133, queue = 23775, heur = -9.0, depth = 9
iter = 16134, queue = 23777, heur = -9.0, depth = 9
iter = 16135, queue = 23779, heur = -9.0, depth = 9
iter = 16136, queue = 23780, heur = -9.0, depth = 9
iter = 16137, queue = 23783, heur = -9.0, depth = 9
iter = 16138, queue = 23786, heur = -9.0, depth = 9
iter = 16139, queue = 23788, heur = -9.0, depth = 13
iter = 16140, queue = 23791, heur = -9.0, depth = 9
iter = 16141, queue = 23794, heur = -9.0, depth = 9
iter = 16142, queue = 23797, heur = -9.0, depth = 9
iter = 16143, queue = 23798, heur = -9.0, depth = 10
iter = 16144, queue = 23799, heur = -9.0, depth = 9
iter = 16145, queue = 23798, heur = -9.0, depth = 9
iter = 16146, queue = 23799, heur = -9.0, depth = 10
iter = 16147, queue = 23800, heur = -9.0, depth = 9
iter = 16148, queue = 23803, heur = -9.0, depth = 9
iter = 16149, queue = 23803, heur = -9.0, depth = 9
iter = 16150, queue = 23804, heur = -9.0, depth = 9
iter = 16151, queue = 23804, heur = -9.0, depth = 9
iter = 16152, queue = 23805, heur = -9.0, depth = 9
iter = 16153, queue = 23806, heur = -9.0, depth = 9
iter = 16154, queue = 23807, heur = -9.0, depth = 9
iter = 16155, queue = 23807, heur = -9.0, depth = 9
iter = 16156, queue = 23806, heur = -9.0, depth = 9
iter = 16157, queue = 23807, heur = -9.0, depth = 9
iter = 16158, queue = 23807, heur = -9.0, depth = 9
iter = 16159, queue = 23808, heur = -9.0, depth = 9
iter = 16160, queue = 23809, heur = -9.0, depth = 9
iter = 16161, queue = 23810, heur = -9.0, depth = 9
iter = 16162, queue = 23811, heur = -9.0, depth = 10
iter = 16163, queue = 23811, heur = -9.0, depth = 9
iter = 16164, queue = 23814, heur = -9.0, depth = 9
```

```
iter = 16165, queue = 23815, heur = -9.0, depth = 12
iter = 16166, queue = 23816, heur = -9.0, depth = 10
iter = 16167, queue = 23816, heur = -9.0, depth = 9
iter = 16168, queue = 23815, heur = -9.0, depth = 10
iter = 16169, queue = 23816, heur = -9.0, depth = 10
iter = 16170, queue = 23818, heur = -9.0, depth = 10
iter = 16171, queue = 23819, heur = -9.0, depth = 9
iter = 16172, queue = 23820, heur = -9.0, depth = 9
iter = 16173, queue = 23820, heur = -9.0, depth = 9
iter = 16174, queue = 23821, heur = -9.0, depth = 9
iter = 16175, queue = 23822, heur = -9.0, depth = 10
iter = 16176, queue = 23822, heur = -9.0, depth = 9
iter = 16177, queue = 23823, heur = -9.0, depth = 9
iter = 16178, queue = 23824, heur = -9.0, depth = 12
iter = 16179, queue = 23827, heur = -9.0, depth = 9
iter = 16180, queue = 23827, heur = -9.0, depth = 9
iter = 16181, queue = 23830, heur = -9.0, depth = 9
iter = 16182, queue = 23833, heur = -9.0, depth = 9
iter = 16183, queue = 23835, heur = -9.0, depth = 9
iter = 16184, queue = 23835, heur = -9.0, depth = 9
iter = 16185, queue = 23834, heur = -9.0, depth = 9
iter = 16186, queue = 23835, heur = -9.0, depth = 10
iter = 16187, queue = 23835, heur = -9.0, depth = 9
iter = 16188, queue = 23834, heur = -9.0, depth = 10
iter = 16189, queue = 23833, heur = -9.0, depth = 9
iter = 16190, queue = 23832, heur = -9.0, depth = 9
iter = 16191, queue = 23835, heur = -9.0, depth = 9
iter = 16192, queue = 23834, heur = -9.0, depth = 9
iter = 16193, queue = 23836, heur = -9.0, depth = 12
iter = 16194, queue = 23838, heur = -9.0, depth = 9
iter = 16195, queue = 23841, heur = -9.0, depth = 10
iter = 16196, queue = 23842, heur = -9.0, depth = 9
iter = 16197, queue = 23844, heur = -9.0, depth = 9
iter = 16198, queue = 23845, heur = -9.0, depth = 9
iter = 16199, queue = 23848, heur = -9.0, depth = 9
iter = 16200, queue = 23850, heur = -9.0, depth = 9
iter = 16201, queue = 23852, heur = -9.0, depth = 10
iter = 16202, queue = 23855, heur = -9.0, depth = 9
iter = 16203, queue = 23857, heur = -9.0, depth = 9
iter = 16204, queue = 23856, heur = -9.0, depth = 9
iter = 16205, queue = 23856, heur = -9.0, depth = 9
iter = 16206, queue = 23855, heur = -9.0, depth = 9
iter = 16207, queue = 23858, heur = -9.0, depth = 9
iter = 16208, queue = 23859, heur = -9.0, depth = 10
iter = 16209, queue = 23860, heur = -9.0, depth = 9
iter = 16210, queue = 23860, heur = -9.0, depth = 9
iter = 16211, queue = 23861, heur = -9.0, depth = 9
iter = 16212, queue = 23863, heur = -9.0, depth = 9
iter = 16213, queue = 23864, heur = -9.0, depth = 9
iter = 16214, queue = 23865, heur = -9.0, depth = 9
iter = 16215, queue = 23866, heur = -9.0, depth = 9
iter = 16216, queue = 23867, heur = -9.0, depth = 9
iter = 16217, queue = 23868, heur = -9.0, depth = 10
iter = 16218, queue = 23869, heur = -9.0, depth = 9
iter = 16219, queue = 23870, heur = -9.0, depth = 9
iter = 16220, queue = 23870, heur = -9.0, depth = 9
iter = 16221, queue = 23873, heur = -9.0, depth = 9
iter = 16222, queue = 23873, heur = -9.0, depth = 9
iter = 16223, queue = 23873, heur = -9.0, depth = 9
```

```
iter = 16224, queue = 23874, heur = -9.0, depth = 10
iter = 16225, queue = 23875, heur = -9.0, depth = 9
iter = 16226, queue = 23877, heur = -9.0, depth = 9
iter = 16227, queue = 23878, heur = -9.0, depth = 10
iter = 16228, queue = 23880, heur = -9.0, depth = 9
iter = 16229, queue = 23881, heur = -9.0, depth = 9
iter = 16230, queue = 23880, heur = -9.0, depth = 9
iter = 16231, queue = 23882, heur = -9.0, depth = 9
iter = 16232, queue = 23881, heur = -9.0, depth = 9
iter = 16233, queue = 23880, heur = -9.0, depth = 9
iter = 16234, queue = 23881, heur = -9.0, depth = 9
iter = 16235, queue = 23882, heur = -9.0, depth = 10
iter = 16236, queue = 23881, heur = -9.0, depth = 9
iter = 16237, queue = 23881, heur = -9.0, depth = 9
iter = 16238, queue = 23882, heur = -9.0, depth = 9
iter = 16239, queue = 23883, heur = -9.0, depth = 9
iter = 16240, queue = 23884, heur = -9.0, depth = 9
iter = 16241, queue = 23885, heur = -9.0, depth = 11
iter = 16242, queue = 23888, heur = -9.0, depth = 9
iter = 16243, queue = 23889, heur = -9.0, depth = 9
iter = 16244, queue = 23890, heur = -9.0, depth = 9
iter = 16245, queue = 23891, heur = -9.0, depth = 9
iter = 16246, queue = 23891, heur = -9.0, depth = 11
iter = 16247, queue = 23892, heur = -9.0, depth = 11
iter = 16248, queue = 23893, heur = -9.0, depth = 9
iter = 16249, queue = 23892, heur = -9.0, depth = 11
iter = 16250, queue = 23893, heur = -9.0, depth = 11
iter = 16251, queue = 23895, heur = -9.0, depth = 9
iter = 16252, queue = 23896, heur = -9.0, depth = 9
iter = 16253, queue = 23895, heur = -9.0, depth = 11
iter = 16254, queue = 23895, heur = -9.0, depth = 10
iter = 16255, queue = 23896, heur = -9.0, depth = 11
iter = 16256, queue = 23898, heur = -9.0, depth = 9
iter = 16257, queue = 23898, heur = -9.0, depth = 9
iter = 16258, queue = 23898, heur = -9.0, depth = 9
iter = 16259, queue = 23899, heur = -9.0, depth = 9
iter = 16260, queue = 23902, heur = -9.0, depth = 9
iter = 16261, queue = 23901, heur = -9.0, depth = 11
iter = 16262, queue = 23902, heur = -9.0, depth = 9
iter = 16263, queue = 23903, heur = -9.0, depth = 9
iter = 16264, queue = 23904, heur = -9.0, depth = 9
iter = 16265, queue = 23905, heur = -9.0, depth = 9
iter = 16266, queue = 23904, heur = -9.0, depth = 9
iter = 16267, queue = 23906, heur = -9.0, depth = 10
iter = 16268, queue = 23907, heur = -9.0, depth = 9
iter = 16269, queue = 23910, heur = -9.0, depth = 9
iter = 16270, queue = 23909, heur = -9.0, depth = 9
iter = 16271, queue = 23910, heur = -9.0, depth = 9
iter = 16272, queue = 23911, heur = -9.0, depth = 9
iter = 16273, queue = 23912, heur = -9.0, depth = 9
iter = 16274, queue = 23915, heur = -9.0, depth = 9
iter = 16275, queue = 23916, heur = -9.0, depth = 9
iter = 16276, queue = 23917, heur = -9.0, depth = 10
iter = 16277, queue = 23920, heur = -9.0, depth = 9
iter = 16278, queue = 23922, heur = -9.0, depth = 9
iter = 16279, queue = 23923, heur = -9.0, depth = 10
iter = 16280, queue = 23924, heur = -9.0, depth = 9
iter = 16281, queue = 23925, heur = -9.0, depth = 11
iter = 16282, queue = 23926, heur = -9.0, depth = 11
```

```
iter = 16283, queue = 23929, heur = -9.0, depth = 9
iter = 16284, queue = 23930, heur = -9.0, depth = 9
iter = 16285, queue = 23931, heur = -9.0, depth = 11
iter = 16286, queue = 23932, heur = -9.0, depth = 11
iter = 16287, queue = 23933, heur = -9.0, depth = 9
iter = 16288, queue = 23935, heur = -9.0, depth = 9
iter = 16289, queue = 23936, heur = -9.0, depth = 9
iter = 16290, queue = 23936, heur = -9.0, depth = 9
iter = 16291, queue = 23937, heur = -9.0, depth = 9
iter = 16292, queue = 23936, heur = -9.0, depth = 9
iter = 16293, queue = 23935, heur = -9.0, depth = 9
iter = 16294, queue = 23936, heur = -9.0, depth = 9
iter = 16295, queue = 23939, heur = -9.0, depth = 9
iter = 16296, queue = 23939, heur = -9.0, depth = 9
iter = 16297, queue = 23941, heur = -9.0, depth = 9
iter = 16298, queue = 23941, heur = -9.0, depth = 9
iter = 16299, queue = 23944, heur = -9.0, depth = 9
iter = 16300, queue = 23945, heur = -9.0, depth = 9
iter = 16301, queue = 23946, heur = -9.0, depth = 9
iter = 16302, queue = 23948, heur = -9.0, depth = 9
iter = 16303, queue = 23950, heur = -9.0, depth = 9
iter = 16304, queue = 23951, heur = -9.0, depth = 9
iter = 16305, queue = 23952, heur = -9.0, depth = 9
iter = 16306, queue = 23952, heur = -9.0, depth = 9
iter = 16307, queue = 23953, heur = -9.0, depth = 9
iter = 16308, queue = 23954, heur = -9.0, depth = 9
iter = 16309, queue = 23957, heur = -9.0, depth = 9
iter = 16310, queue = 23960, heur = -9.0, depth = 9
iter = 16311, queue = 23961, heur = -9.0, depth = 9
iter = 16312, queue = 23962, heur = -9.0, depth = 9
iter = 16313, queue = 23965, heur = -9.0, depth = 9
iter = 16314, queue = 23966, heur = -9.0, depth = 9
iter = 16315, queue = 23965, heur = -9.0, depth = 9
iter = 16316, queue = 23964, heur = -9.0, depth = 9
iter = 16317, queue = 23967, heur = -9.0, depth = 9
iter = 16318, queue = 23968, heur = -9.0, depth = 9
iter = 16319, queue = 23969, heur = -9.0, depth = 9
iter = 16320, queue = 23968, heur = -9.0, depth = 9
iter = 16321, queue = 23971, heur = -9.0, depth = 9
iter = 16322, queue = 23972, heur = -9.0, depth = 9
iter = 16323, queue = 23971, heur = -9.0, depth = 9
iter = 16324, queue = 23973, heur = -9.0, depth = 9
iter = 16325, queue = 23975, heur = -9.0, depth = 9
iter = 16326, queue = 23976, heur = -9.0, depth = 9
iter = 16327, queue = 23977, heur = -9.0, depth = 9
iter = 16328, queue = 23976, heur = -9.0, depth = 9
iter = 16329, queue = 23978, heur = -9.0, depth = 9
iter = 16330, queue = 23979, heur = -9.0, depth = 9
iter = 16331, queue = 23980, heur = -9.0, depth = 9
iter = 16332, queue = 23980, heur = -9.0, depth = 9
iter = 16333, queue = 23980, heur = -9.0, depth = 9
iter = 16334, queue = 23981, heur = -9.0, depth = 9
iter = 16335, queue = 23981, heur = -9.0, depth = 11
iter = 16336, queue = 23980, heur = -9.0, depth = 9
iter = 16337, queue = 23980, heur = -9.0, depth = 9
iter = 16338, queue = 23981, heur = -9.0, depth = 9
iter = 16339, queue = 23982, heur = -9.0, depth = 9
iter = 16340, queue = 23983, heur = -9.0, depth = 9
iter = 16341, queue = 23984, heur = -9.0, depth = 9
```

```
iter = 16342, queue = 23986, heur = -9.0, depth = 9
iter = 16343, queue = 23988, heur = -9.0, depth = 9
iter = 16344, queue = 23989, heur = -9.0, depth = 9
iter = 16345, queue = 23988, heur = -9.0, depth = 9
iter = 16346, queue = 23990, heur = -9.0, depth = 10
iter = 16347, queue = 23991, heur = -9.0, depth = 9
iter = 16348, queue = 23991, heur = -9.0, depth = 9
iter = 16349, queue = 23991, heur = -9.0, depth = 9
iter = 16350, queue = 23992, heur = -9.0, depth = 9
iter = 16351, queue = 23992, heur = -9.0, depth = 9
iter = 16352, queue = 23991, heur = -9.0, depth = 9
iter = 16353, queue = 23992, heur = -9.0, depth = 9
iter = 16354, queue = 23992, heur = -9.0, depth = 9
iter = 16355, queue = 23993, heur = -9.0, depth = 9
iter = 16356, queue = 23994, heur = -9.0, depth = 9
iter = 16357, queue = 23995, heur = -9.0, depth = 9
iter = 16358, queue = 23995, heur = -9.0, depth = 9
iter = 16359, queue = 23996, heur = -9.0, depth = 9
iter = 16360, queue = 23998, heur = -9.0, depth = 9
iter = 16361, queue = 24001, heur = -9.0, depth = 10
iter = 16362, queue = 24003, heur = -9.0, depth = 9
iter = 16363, queue = 24004, heur = -9.0, depth = 9
iter = 16364, queue = 24004, heur = -9.0, depth = 9
iter = 16365, queue = 24007, heur = -9.0, depth = 9
iter = 16366, queue = 24010, heur = -9.0, depth = 9
iter = 16367, queue = 24012, heur = -9.0, depth = 9
iter = 16368, queue = 24012, heur = -9.0, depth = 9
iter = 16369, queue = 24014, heur = -9.0, depth = 9
iter = 16370, queue = 24015, heur = -9.0, depth = 10
iter = 16371, queue = 24016, heur = -9.0, depth = 9
iter = 16372, queue = 24017, heur = -9.0, depth = 9
iter = 16373, queue = 24017, heur = -9.0, depth = 9
iter = 16374, queue = 24016, heur = -9.0, depth = 9
iter = 16375, queue = 24016, heur = -9.0, depth = 9
iter = 16376, queue = 24017, heur = -9.0, depth = 10
iter = 16377, queue = 24018, heur = -9.0, depth = 10
iter = 16378, queue = 24019, heur = -9.0, depth = 10
iter = 16379, queue = 24020, heur = -9.0, depth = 10
iter = 16380, queue = 24019, heur = -9.0, depth = 10
iter = 16381, queue = 24022, heur = -9.0, depth = 9
iter = 16382, queue = 24023, heur = -9.0, depth = 9
iter = 16383, queue = 24025, heur = -9.0, depth = 9
iter = 16384, queue = 24024, heur = -9.0, depth = 9
iter = 16385, queue = 24026, heur = -9.0, depth = 9
iter = 16386, queue = 24029, heur = -9.0, depth = 9
iter = 16387, queue = 24029, heur = -9.0, depth = 10
iter = 16388, queue = 24030, heur = -9.0, depth = 9
iter = 16389, queue = 24031, heur = -9.0, depth = 10
iter = 16390, queue = 24032, heur = -9.0, depth = 10
iter = 16391, queue = 24032, heur = -9.0, depth = 9
iter = 16392, queue = 24033, heur = -9.0, depth = 9
iter = 16393, queue = 24036, heur = -9.0, depth = 9
iter = 16394, queue = 24037, heur = -9.0, depth = 9
iter = 16395, queue = 24039, heur = -9.0, depth = 9
iter = 16396, queue = 24038, heur = -9.0, depth = 10
iter = 16397, queue = 24040, heur = -9.0, depth = 10
iter = 16398, queue = 24041, heur = -9.0, depth = 11
iter = 16399, queue = 24042, heur = -9.0, depth = 9
iter = 16400, queue = 24042, heur = -9.0, depth = 9
```

```
iter = 16401, queue = 24045, heur = -9.0, depth = 9
iter = 16402, queue = 24045, heur = -9.0, depth = 9
iter = 16403, queue = 24044, heur = -9.0, depth = 10
iter = 16404, queue = 24045, heur = -9.0, depth = 10
iter = 16405, queue = 24045, heur = -9.0, depth = 9
iter = 16406, queue = 24046, heur = -9.0, depth = 9
iter = 16407, queue = 24047, heur = -9.0, depth = 9
iter = 16408, queue = 24050, heur = -9.0, depth = 9
iter = 16409, queue = 24049, heur = -9.0, depth = 9
iter = 16410, queue = 24052, heur = -9.0, depth = 9
iter = 16411, queue = 24055, heur = -9.0, depth = 9
iter = 16412, queue = 24058, heur = -9.0, depth = 9
iter = 16413, queue = 24059, heur = -9.0, depth = 9
iter = 16414, queue = 24061, heur = -9.0, depth = 9
iter = 16415, queue = 24060, heur = -9.0, depth = 9
iter = 16416, queue = 24062, heur = -9.0, depth = 9
iter = 16417, queue = 24062, heur = -9.0, depth = 9
iter = 16418, queue = 24063, heur = -9.0, depth = 10
iter = 16419, queue = 24063, heur = -9.0, depth = 9
iter = 16420, queue = 24064, heur = -9.0, depth = 9
iter = 16421, queue = 24063, heur = -9.0, depth = 9
iter = 16422, queue = 24062, heur = -9.0, depth = 9
iter = 16423, queue = 24064, heur = -9.0, depth = 9
iter = 16424, queue = 24065, heur = -9.0, depth = 9
iter = 16425, queue = 24064, heur = -9.0, depth = 10
iter = 16426, queue = 24065, heur = -9.0, depth = 10
iter = 16427, queue = 24066, heur = -9.0, depth = 9
iter = 16428, queue = 24068, heur = -9.0, depth = 9
iter = 16429, queue = 24069, heur = -9.0, depth = 9
iter = 16430, queue = 24071, heur = -9.0, depth = 9
iter = 16431, queue = 24074, heur = -9.0, depth = 10
iter = 16432, queue = 24075, heur = -9.0, depth = 9
iter = 16433, queue = 24075, heur = -9.0, depth = 9
iter = 16434, queue = 24076, heur = -9.0, depth = 9
iter = 16435, queue = 24077, heur = -9.0, depth = 9
iter = 16436, queue = 24079, heur = -9.0, depth = 9
iter = 16437, queue = 24081, heur = -9.0, depth = 9
iter = 16438, queue = 24082, heur = -9.0, depth = 9
iter = 16439, queue = 24085, heur = -9.0, depth = 9
iter = 16440, queue = 24085, heur = -9.0, depth = 9
iter = 16441, queue = 24087, heur = -9.0, depth = 9
iter = 16442, queue = 24088, heur = -9.0, depth = 9
iter = 16443, queue = 24090, heur = -9.0, depth = 9
iter = 16444, queue = 24091, heur = -9.0, depth = 9
iter = 16445, queue = 24090, heur = -9.0, depth = 9
iter = 16446, queue = 24093, heur = -9.0, depth = 9
iter = 16447, queue = 24092, heur = -9.0, depth = 9
iter = 16448, queue = 24092, heur = -9.0, depth = 10
iter = 16449, queue = 24094, heur = -9.0, depth = 9
iter = 16450, queue = 24095, heur = -9.0, depth = 9
iter = 16451, queue = 24096, heur = -9.0, depth = 9
iter = 16452, queue = 24097, heur = -9.0, depth = 9
iter = 16453, queue = 24100, heur = -9.0, depth = 9
iter = 16454, queue = 24101, heur = -9.0, depth = 10
iter = 16455, queue = 24104, heur = -9.0, depth = 9
iter = 16456, queue = 24104, heur = -9.0, depth = 9
iter = 16457, queue = 24105, heur = -9.0, depth = 9
iter = 16458, queue = 24105, heur = -9.0, depth = 9
iter = 16459, queue = 24108, heur = -9.0, depth = 9
```

```
iter = 16460, queue = 24109, heur = -9.0, depth = 9
iter = 16461, queue = 24112, heur = -9.0, depth = 9
iter = 16462, queue = 24113, heur = -9.0, depth = 9
iter = 16463, queue = 24114, heur = -9.0, depth = 9
iter = 16464, queue = 24113, heur = -9.0, depth = 9
iter = 16465, queue = 24114, heur = -9.0, depth = 10
iter = 16466, queue = 24115, heur = -9.0, depth = 9
iter = 16467, queue = 24117, heur = -9.0, depth = 9
iter = 16468, queue = 24116, heur = -9.0, depth = 9
iter = 16469, queue = 24117, heur = -9.0, depth = 9
iter = 16470, queue = 24119, heur = -9.0, depth = 9
iter = 16471, queue = 24119, heur = -9.0, depth = 9
iter = 16472, queue = 24120, heur = -9.0, depth = 9
iter = 16473, queue = 24121, heur = -9.0, depth = 9
iter = 16474, queue = 24124, heur = -9.0, depth = 9
iter = 16475, queue = 24125, heur = -9.0, depth = 9
iter = 16476, queue = 24126, heur = -9.0, depth = 9
iter = 16477, queue = 24128, heur = -9.0, depth = 9
iter = 16478, queue = 24131, heur = -9.0, depth = 9
iter = 16479, queue = 24132, heur = -9.0, depth = 9
iter = 16480, queue = 24133, heur = -9.0, depth = 9
iter = 16481, queue = 24134, heur = -9.0, depth = 10
iter = 16482, queue = 24136, heur = -9.0, depth = 9
iter = 16483, queue = 24135, heur = -9.0, depth = 10
iter = 16484, queue = 24138, heur = -9.0, depth = 9
iter = 16485, queue = 24138, heur = -9.0, depth = 9
iter = 16486, queue = 24139, heur = -9.0, depth = 9
iter = 16487, queue = 24142, heur = -9.0, depth = 9
iter = 16488, queue = 24143, heur = -9.0, depth = 9
iter = 16489, queue = 24146, heur = -9.0, depth = 9
iter = 16490, queue = 24145, heur = -9.0, depth = 11
iter = 16491, queue = 24148, heur = -9.0, depth = 9
iter = 16492, queue = 24148, heur = -9.0, depth = 9
iter = 16493, queue = 24151, heur = -9.0, depth = 9
iter = 16494, queue = 24150, heur = -9.0, depth = 9
iter = 16495, queue = 24153, heur = -9.0, depth = 9
iter = 16496, queue = 24156, heur = -9.0, depth = 9
iter = 16497, queue = 24157, heur = -9.0, depth = 9
iter = 16498, queue = 24158, heur = -9.0, depth = 9
iter = 16499, queue = 24157, heur = -9.0, depth = 9
iter = 16500, queue = 24158, heur = -9.0, depth = 9
iter = 16501, queue = 24158, heur = -9.0, depth = 9
iter = 16502, queue = 24159, heur = -9.0, depth = 9
iter = 16503, queue = 24161, heur = -9.0, depth = 10
iter = 16504, queue = 24161, heur = -9.0, depth = 9
iter = 16505, queue = 24163, heur = -9.0, depth = 9
iter = 16506, queue = 24164, heur = -9.0, depth = 10
iter = 16507, queue = 24167, heur = -9.0, depth = 9
iter = 16508, queue = 24170, heur = -9.0, depth = 11
iter = 16509, queue = 24171, heur = -9.0, depth = 9
iter = 16510, queue = 24174, heur = -9.0, depth = 9
iter = 16511, queue = 24175, heur = -9.0, depth = 9
iter = 16512, queue = 24177, heur = -9.0, depth = 9
iter = 16513, queue = 24178, heur = -9.0, depth = 9
iter = 16514, queue = 24179, heur = -9.0, depth = 9
iter = 16515, queue = 24179, heur = -9.0, depth = 9
iter = 16516, queue = 24179, heur = -9.0, depth = 9
iter = 16517, queue = 24180, heur = -9.0, depth = 9
iter = 16518, queue = 24181, heur = -9.0, depth = 9
```

```
iter = 16519, queue = 24181, heur = -9.0, depth = 9
iter = 16520, queue = 24180, heur = -9.0, depth = 9
iter = 16521, queue = 24181, heur = -9.0, depth = 9
iter = 16522, queue = 24182, heur = -9.0, depth = 9
iter = 16523, queue = 24182, heur = -9.0, depth = 9
iter = 16524, queue = 24183, heur = -9.0, depth = 9
iter = 16525, queue = 24184, heur = -9.0, depth = 9
iter = 16526, queue = 24185, heur = -9.0, depth = 9
iter = 16527, queue = 24188, heur = -9.0, depth = 9
iter = 16528, queue = 24189, heur = -9.0, depth = 9
iter = 16529, queue = 24191, heur = -9.0, depth = 9
iter = 16530, queue = 24191, heur = -9.0, depth = 9
iter = 16531, queue = 24192, heur = -9.0, depth = 9
iter = 16532, queue = 24194, heur = -9.0, depth = 9
iter = 16533, queue = 24196, heur = -9.0, depth = 9
iter = 16534, queue = 24198, heur = -9.0, depth = 9
iter = 16535, queue = 24199, heur = -9.0, depth = 9
iter = 16536, queue = 24200, heur = -9.0, depth = 9
iter = 16537, queue = 24200, heur = -9.0, depth = 9
iter = 16538, queue = 24203, heur = -9.0, depth = 9
iter = 16539, queue = 24203, heur = -9.0, depth = 9
iter = 16540, queue = 24206, heur = -9.0, depth = 9
iter = 16541, queue = 24209, heur = -9.0, depth = 9
iter = 16542, queue = 24210, heur = -9.0, depth = 9
iter = 16543, queue = 24210, heur = -9.0, depth = 9
iter = 16544, queue = 24212, heur = -9.0, depth = 9
iter = 16545, queue = 24212, heur = -9.0, depth = 9
iter = 16546, queue = 24213, heur = -9.0, depth = 9
iter = 16547, queue = 24213, heur = -9.0, depth = 9
iter = 16548, queue = 24216, heur = -9.0, depth = 9
iter = 16549, queue = 24217, heur = -9.0, depth = 9
iter = 16550, queue = 24219, heur = -9.0, depth = 9
iter = 16551, queue = 24220, heur = -9.0, depth = 9
iter = 16552, queue = 24222, heur = -9.0, depth = 9
iter = 16553, queue = 24223, heur = -9.0, depth = 9
iter = 16554, queue = 24224, heur = -9.0, depth = 9
iter = 16555, queue = 24225, heur = -9.0, depth = 9
iter = 16556, queue = 24228, heur = -9.0, depth = 9
iter = 16557, queue = 24229, heur = -9.0, depth = 9
iter = 16558, queue = 24230, heur = -9.0, depth = 9
iter = 16559, queue = 24229, heur = -9.0, depth = 9
iter = 16560, queue = 24230, heur = -9.0, depth = 9
iter = 16561, queue = 24233, heur = -9.0, depth = 9
iter = 16562, queue = 24234, heur = -9.0, depth = 9
iter = 16563, queue = 24235, heur = -9.0, depth = 9
iter = 16564, queue = 24234, heur = -9.0, depth = 9
iter = 16565, queue = 24235, heur = -9.0, depth = 9
iter = 16566, queue = 24237, heur = -9.0, depth = 9
iter = 16567, queue = 24240, heur = -9.0, depth = 9
iter = 16568, queue = 24241, heur = -9.0, depth = 9
iter = 16569, queue = 24241, heur = -9.0, depth = 9
iter = 16570, queue = 24242, heur = -9.0, depth = 9
iter = 16571, queue = 24243, heur = -9.0, depth = 9
iter = 16572, queue = 24244, heur = -9.0, depth = 9
iter = 16573, queue = 24245, heur = -9.0, depth = 9
iter = 16574, queue = 24247, heur = -9.0, depth = 9
iter = 16575, queue = 24249, heur = -9.0, depth = 9
iter = 16576, queue = 24250, heur = -9.0, depth = 9
iter = 16577, queue = 24251, heur = -9.0, depth = 9
```

```
iter = 16578, queue = 24252, heur = -9.0, depth = 9
iter = 16579, queue = 24255, heur = -9.0, depth = 9
iter = 16580, queue = 24257, heur = -9.0, depth = 9
iter = 16581, queue = 24260, heur = -9.0, depth = 9
iter = 16582, queue = 24262, heur = -9.0, depth = 9
iter = 16583, queue = 24265, heur = -9.0, depth = 9
iter = 16584, queue = 24266, heur = -9.0, depth = 9
iter = 16585, queue = 24266, heur = -9.0, depth = 9
iter = 16586, queue = 24268, heur = -9.0, depth = 9
iter = 16587, queue = 24268, heur = -9.0, depth = 9
iter = 16588, queue = 24267, heur = -9.0, depth = 9
iter = 16589, queue = 24267, heur = -9.0, depth = 9
iter = 16590, queue = 24268, heur = -9.0, depth = 11
iter = 16591, queue = 24270, heur = -9.0, depth = 9
iter = 16592, queue = 24270, heur = -9.0, depth = 9
iter = 16593, queue = 24271, heur = -9.0, depth = 9
iter = 16594, queue = 24270, heur = -9.0, depth = 9
iter = 16595, queue = 24271, heur = -9.0, depth = 9
iter = 16596, queue = 24272, heur = -9.0, depth = 9
iter = 16597, queue = 24273, heur = -9.0, depth = 9
iter = 16598, queue = 24274, heur = -9.0, depth = 9
iter = 16599, queue = 24277, heur = -9.0, depth = 9
iter = 16600, queue = 24279, heur = -9.0, depth = 9
iter = 16601, queue = 24280, heur = -9.0, depth = 9
iter = 16602, queue = 24280, heur = -9.0, depth = 9
iter = 16603, queue = 24282, heur = -9.0, depth = 9
iter = 16604, queue = 24283, heur = -9.0, depth = 9
iter = 16605, queue = 24286, heur = -9.0, depth = 9
iter = 16606, queue = 24285, heur = -9.0, depth = 9
iter = 16607, queue = 24287, heur = -9.0, depth = 9
iter = 16608, queue = 24290, heur = -9.0, depth = 9
iter = 16609, queue = 24289, heur = -9.0, depth = 9
iter = 16610, queue = 24290, heur = -9.0, depth = 9
iter = 16611, queue = 24289, heur = -9.0, depth = 9
iter = 16612, queue = 24290, heur = -9.0, depth = 9
iter = 16613, queue = 24291, heur = -9.0, depth = 9
iter = 16614, queue = 24294, heur = -9.0, depth = 9
iter = 16615, queue = 24295, heur = -9.0, depth = 9
iter = 16616, queue = 24295, heur = -9.0, depth = 9
iter = 16617, queue = 24296, heur = -9.0, depth = 9
iter = 16618, queue = 24296, heur = -9.0, depth = 9
iter = 16619, queue = 24299, heur = -9.0, depth = 9
iter = 16620, queue = 24301, heur = -9.0, depth = 9
iter = 16621, queue = 24302, heur = -9.0, depth = 9
iter = 16622, queue = 24303, heur = -9.0, depth = 9
iter = 16623, queue = 24306, heur = -9.0, depth = 9
iter = 16624, queue = 24309, heur = -9.0, depth = 9
iter = 16625, queue = 24310, heur = -9.0, depth = 9
iter = 16626, queue = 24311, heur = -9.0, depth = 9
iter = 16627, queue = 24312, heur = -9.0, depth = 9
iter = 16628, queue = 24313, heur = -9.0, depth = 9
iter = 16629, queue = 24316, heur = -9.0, depth = 9
iter = 16630, queue = 24317, heur = -9.0, depth = 9
iter = 16631, queue = 24318, heur = -9.0, depth = 9
iter = 16632, queue = 24319, heur = -9.0, depth = 9
iter = 16633, queue = 24318, heur = -9.0, depth = 9
iter = 16634, queue = 24318, heur = -9.0, depth = 9
iter = 16635, queue = 24319, heur = -9.0, depth = 9
iter = 16636, queue = 24320, heur = -9.0, depth = 9
```

```
iter = 16637, queue = 24321, heur = -9.0, depth = 9
iter = 16638, queue = 24323, heur = -9.0, depth = 9
iter = 16639, queue = 24324, heur = -9.0, depth = 9
iter = 16640, queue = 24326, heur = -9.0, depth = 9
iter = 16641, queue = 24329, heur = -9.0, depth = 9
iter = 16642, queue = 24330, heur = -9.0, depth = 9
iter = 16643, queue = 24329, heur = -9.0, depth = 9
iter = 16644, queue = 24330, heur = -9.0, depth = 9
iter = 16645, queue = 24332, heur = -9.0, depth = 9
iter = 16646, queue = 24331, heur = -9.0, depth = 9
iter = 16647, queue = 24333, heur = -9.0, depth = 9
iter = 16648, queue = 24336, heur = -9.0, depth = 9
iter = 16649, queue = 24339, heur = -9.0, depth = 9
iter = 16650, queue = 24340, heur = -9.0, depth = 9
iter = 16651, queue = 24343, heur = -9.0, depth = 9
iter = 16652, queue = 24344, heur = -9.0, depth = 9
iter = 16653, queue = 24345, heur = -9.0, depth = 9
iter = 16654, queue = 24345, heur = -9.0, depth = 9
iter = 16655, queue = 24348, heur = -9.0, depth = 11
iter = 16656, queue = 24347, heur = -9.0, depth = 10
iter = 16657, queue = 24350, heur = -9.0, depth = 9
iter = 16658, queue = 24353, heur = -9.0, depth = 9
iter = 16659, queue = 24354, heur = -9.0, depth = 9
iter = 16660, queue = 24355, heur = -9.0, depth = 9
iter = 16661, queue = 24356, heur = -9.0, depth = 9
iter = 16662, queue = 24357, heur = -9.0, depth = 9
iter = 16663, queue = 24358, heur = -9.0, depth = 9
iter = 16664, queue = 24359, heur = -9.0, depth = 9
iter = 16665, queue = 24360, heur = -9.0, depth = 9
iter = 16666, queue = 24361, heur = -9.0, depth = 9
iter = 16667, queue = 24361, heur = -9.0, depth = 9
iter = 16668, queue = 24364, heur = -9.0, depth = 10
iter = 16669, queue = 24366, heur = -9.0, depth = 9
iter = 16670, queue = 24367, heur = -9.0, depth = 9
iter = 16671, queue = 24370, heur = -9.0, depth = 9
iter = 16672, queue = 24373, heur = -9.0, depth = 10
iter = 16673, queue = 24376, heur = -9.0, depth = 10
iter = 16674, queue = 24379, heur = -9.0, depth = 9
iter = 16675, queue = 24380, heur = -9.0, depth = 9
iter = 16676, queue = 24382, heur = -9.0, depth = 9
iter = 16677, queue = 24383, heur = -9.0, depth = 9
iter = 16678, queue = 24384, heur = -9.0, depth = 9
iter = 16679, queue = 24385, heur = -9.0, depth = 9
iter = 16680, queue = 24388, heur = -9.0, depth = 9
iter = 16681, queue = 24390, heur = -9.0, depth = 9
iter = 16682, queue = 24391, heur = -9.0, depth = 9
iter = 16683, queue = 24392, heur = -9.0, depth = 9
iter = 16684, queue = 24394, heur = -9.0, depth = 9
iter = 16685, queue = 24394, heur = -9.0, depth = 9
iter = 16686, queue = 24393, heur = -9.0, depth = 9
iter = 16687, queue = 24395, heur = -9.0, depth = 9
iter = 16688, queue = 24396, heur = -9.0, depth = 9
iter = 16689, queue = 24397, heur = -9.0, depth = 9
iter = 16690, queue = 24398, heur = -9.0, depth = 9
iter = 16691, queue = 24401, heur = -9.0, depth = 9
iter = 16692, queue = 24403, heur = -9.0, depth = 9
iter = 16693, queue = 24404, heur = -9.0, depth = 10
iter = 16694, queue = 24405, heur = -9.0, depth = 9
iter = 16695, queue = 24404, heur = -9.0, depth = 9
```

```
iter = 16696, queue = 24405, heur = -9.0, depth = 10
iter = 16697, queue = 24406, heur = -9.0, depth = 9
iter = 16698, queue = 24409, heur = -9.0, depth = 9
iter = 16699, queue = 24412, heur = -9.0, depth = 9
iter = 16700, queue = 24413, heur = -9.0, depth = 9
iter = 16701, queue = 24413, heur = -9.0, depth = 9
iter = 16702, queue = 24412, heur = -9.0, depth = 9
iter = 16703, queue = 24415, heur = -9.0, depth = 9
iter = 16704, queue = 24416, heur = -9.0, depth = 9
iter = 16705, queue = 24419, heur = -9.0, depth = 9
iter = 16706, queue = 24422, heur = -9.0, depth = 9
iter = 16707, queue = 24423, heur = -9.0, depth = 9
iter = 16708, queue = 24424, heur = -9.0, depth = 9
iter = 16709, queue = 24425, heur = -9.0, depth = 9
iter = 16710, queue = 24426, heur = -9.0, depth = 9
iter = 16711, queue = 24427, heur = -9.0, depth = 9
iter = 16712, queue = 24426, heur = -9.0, depth = 9
iter = 16713, queue = 24429, heur = -9.0, depth = 9
iter = 16714, queue = 24432, heur = -9.0, depth = 9
iter = 16715, queue = 24433, heur = -9.0, depth = 9
iter = 16716, queue = 24434, heur = -9.0, depth = 9
iter = 16717, queue = 24436, heur = -9.0, depth = 9
iter = 16718, queue = 24435, heur = -9.0, depth = 9
iter = 16719, queue = 24434, heur = -9.0, depth = 9
iter = 16720, queue = 24436, heur = -9.0, depth = 10
iter = 16721, queue = 24437, heur = -9.0, depth = 9
iter = 16722, queue = 24436, heur = -9.0, depth = 9
iter = 16723, queue = 24435, heur = -9.0, depth = 9
iter = 16724, queue = 24436, heur = -9.0, depth = 9
iter = 16725, queue = 24438, heur = -9.0, depth = 9
iter = 16726, queue = 24437, heur = -9.0, depth = 9
iter = 16727, queue = 24438, heur = -9.0, depth = 9
iter = 16728, queue = 24438, heur = -9.0, depth = 9
iter = 16729, queue = 24439, heur = -9.0, depth = 9
iter = 16730, queue = 24440, heur = -9.0, depth = 9
iter = 16731, queue = 24443, heur = -9.0, depth = 9
iter = 16732, queue = 24444, heur = -9.0, depth = 9
iter = 16733, queue = 24445, heur = -9.0, depth = 9
iter = 16734, queue = 24448, heur = -9.0, depth = 9
iter = 16735, queue = 24449, heur = -9.0, depth = 9
iter = 16736, queue = 24449, heur = -9.0, depth = 9
iter = 16737, queue = 24450, heur = -9.0, depth = 9
iter = 16738, queue = 24451, heur = -9.0, depth = 10
iter = 16739, queue = 24450, heur = -9.0, depth = 9
iter = 16740, queue = 24453, heur = -9.0, depth = 9
iter = 16741, queue = 24455, heur = -9.0, depth = 10
iter = 16742, queue = 24456, heur = -9.0, depth = 9
iter = 16743, queue = 24457, heur = -9.0, depth = 9
iter = 16744, queue = 24457, heur = -9.0, depth = 9
iter = 16745, queue = 24458, heur = -9.0, depth = 9
iter = 16746, queue = 24460, heur = -9.0, depth = 9
iter = 16747, queue = 24462, heur = -9.0, depth = 9
iter = 16748, queue = 24465, heur = -9.0, depth = 9
iter = 16749, queue = 24465, heur = -9.0, depth = 9
iter = 16750, queue = 24466, heur = -9.0, depth = 9
iter = 16751, queue = 24467, heur = -9.0, depth = 9
iter = 16752, queue = 24466, heur = -9.0, depth = 9
iter = 16753, queue = 24467, heur = -9.0, depth = 9
iter = 16754, queue = 24468, heur = -9.0, depth = 9
```

```
iter = 16755, queue = 24468, heur = -9.0, depth = 9
iter = 16756, queue = 24467, heur = -9.0, depth = 10
iter = 16757, queue = 24470, heur = -9.0, depth = 9
iter = 16758, queue = 24470, heur = -9.0, depth = 9
iter = 16759, queue = 24470, heur = -9.0, depth = 9
iter = 16760, queue = 24472, heur = -9.0, depth = 9
iter = 16761, queue = 24471, heur = -9.0, depth = 9
iter = 16762, queue = 24470, heur = -9.0, depth = 9
iter = 16763, queue = 24473, heur = -9.0, depth = 9
iter = 16764, queue = 24474, heur = -9.0, depth = 10
iter = 16765, queue = 24475, heur = -9.0, depth = 9
iter = 16766, queue = 24476, heur = -9.0, depth = 9
iter = 16767, queue = 24477, heur = -9.0, depth = 10
iter = 16768, queue = 24480, heur = -9.0, depth = 9
iter = 16769, queue = 24481, heur = -9.0, depth = 9
iter = 16770, queue = 24481, heur = -9.0, depth = 10
iter = 16771, queue = 24483, heur = -9.0, depth = 9
iter = 16772, queue = 24484, heur = -9.0, depth = 9
iter = 16773, queue = 24486, heur = -9.0, depth = 9
iter = 16774, queue = 24486, heur = -9.0, depth = 9
iter = 16775, queue = 24487, heur = -9.0, depth = 9
iter = 16776, queue = 24489, heur = -9.0, depth = 9
iter = 16777, queue = 24492, heur = -9.0, depth = 9
iter = 16778, queue = 24495, heur = -9.0, depth = 9
iter = 16779, queue = 24496, heur = -9.0, depth = 9
iter = 16780, queue = 24495, heur = -9.0, depth = 9
iter = 16781, queue = 24496, heur = -9.0, depth = 9
iter = 16782, queue = 24497, heur = -9.0, depth = 9
iter = 16783, queue = 24499, heur = -9.0, depth = 9
iter = 16784, queue = 24502, heur = -9.0, depth = 9
iter = 16785, queue = 24503, heur = -9.0, depth = 9
iter = 16786, queue = 24506, heur = -9.0, depth = 9
iter = 16787, queue = 24505, heur = -9.0, depth = 9
iter = 16788, queue = 24507, heur = -9.0, depth = 9
iter = 16789, queue = 24510, heur = -9.0, depth = 9
iter = 16790, queue = 24509, heur = -9.0, depth = 9
iter = 16791, queue = 24510, heur = -9.0, depth = 9
iter = 16792, queue = 24511, heur = -9.0, depth = 9
iter = 16793, queue = 24513, heur = -9.0, depth = 9
iter = 16794, queue = 24514, heur = -9.0, depth = 9
iter = 16795, queue = 24516, heur = -9.0, depth = 9
iter = 16796, queue = 24517, heur = -9.0, depth = 10
iter = 16797, queue = 24518, heur = -9.0, depth = 9
iter = 16798, queue = 24520, heur = -9.0, depth = 9
iter = 16799, queue = 24519, heur = -9.0, depth = 9
iter = 16800, queue = 24518, heur = -9.0, depth = 9
iter = 16801, queue = 24519, heur = -9.0, depth = 9
iter = 16802, queue = 24520, heur = -9.0, depth = 9
iter = 16803, queue = 24522, heur = -9.0, depth = 9
iter = 16804, queue = 24523, heur = -9.0, depth = 9
iter = 16805, queue = 24525, heur = -9.0, depth = 9
iter = 16806, queue = 24525, heur = -9.0, depth = 9
iter = 16807, queue = 24526, heur = -9.0, depth = 9
iter = 16808, queue = 24528, heur = -9.0, depth = 9
iter = 16809, queue = 24529, heur = -9.0, depth = 9
iter = 16810, queue = 24529, heur = -9.0, depth = 10
iter = 16811, queue = 24529, heur = -9.0, depth = 9
iter = 16812, queue = 24530, heur = -9.0, depth = 9
iter = 16813, queue = 24531, heur = -9.0, depth = 9
```

```
iter = 16814, queue = 24534, heur = -9.0, depth = 9
iter = 16815, queue = 24535, heur = -9.0, depth = 9
iter = 16816, queue = 24536, heur = -9.0, depth = 10
iter = 16817, queue = 24537, heur = -9.0, depth = 9
iter = 16818, queue = 24536, heur = -9.0, depth = 9
iter = 16819, queue = 24536, heur = -9.0, depth = 9
iter = 16820, queue = 24535, heur = -9.0, depth = 9
iter = 16821, queue = 24536, heur = -9.0, depth = 9
iter = 16822, queue = 24535, heur = -9.0, depth = 10
iter = 16823, queue = 24535, heur = -9.0, depth = 10
iter = 16824, queue = 24535, heur = -9.0, depth = 9
iter = 16825, queue = 24535, heur = -9.0, depth = 10
iter = 16826, queue = 24538, heur = -9.0, depth = 9
iter = 16827, queue = 24541, heur = -9.0, depth = 9
iter = 16828, queue = 24540, heur = -9.0, depth = 9
iter = 16829, queue = 24540, heur = -9.0, depth = 10
iter = 16830, queue = 24541, heur = -9.0, depth = 9
iter = 16831, queue = 24542, heur = -9.0, depth = 9
iter = 16832, queue = 24541, heur = -9.0, depth = 9
iter = 16833, queue = 24542, heur = -9.0, depth = 9
iter = 16834, queue = 24543, heur = -9.0, depth = 9
iter = 16835, queue = 24545, heur = -9.0, depth = 9
iter = 16836, queue = 24545, heur = -9.0, depth = 9
iter = 16837, queue = 24546, heur = -9.0, depth = 9
iter = 16838, queue = 24545, heur = -9.0, depth = 9
iter = 16839, queue = 24546, heur = -9.0, depth = 11
iter = 16840, queue = 24545, heur = -9.0, depth = 9
iter = 16841, queue = 24548, heur = -9.0, depth = 9
iter = 16842, queue = 24548, heur = -9.0, depth = 9
iter = 16843, queue = 24547, heur = -9.0, depth = 9
iter = 16844, queue = 24548, heur = -9.0, depth = 9
iter = 16845, queue = 24549, heur = -9.0, depth = 9
iter = 16846, queue = 24550, heur = -9.0, depth = 9
iter = 16847, queue = 24551, heur = -9.0, depth = 9
iter = 16848, queue = 24554, heur = -9.0, depth = 9
iter = 16849, queue = 24553, heur = -9.0, depth = 9
iter = 16850, queue = 24554, heur = -9.0, depth = 9
iter = 16851, queue = 24555, heur = -9.0, depth = 9
iter = 16852, queue = 24558, heur = -9.0, depth = 9
iter = 16853, queue = 24560, heur = -9.0, depth = 9
iter = 16854, queue = 24562, heur = -9.0, depth = 9
iter = 16855, queue = 24565, heur = -9.0, depth = 9
iter = 16856, queue = 24566, heur = -9.0, depth = 9
iter = 16857, queue = 24566, heur = -9.0, depth = 9
iter = 16858, queue = 24565, heur = -9.0, depth = 9
iter = 16859, queue = 24567, heur = -9.0, depth = 9
iter = 16860, queue = 24568, heur = -9.0, depth = 9
iter = 16861, queue = 24568, heur = -9.0, depth = 9
iter = 16862, queue = 24569, heur = -9.0, depth = 9
iter = 16863, queue = 24570, heur = -9.0, depth = 9
iter = 16864, queue = 24573, heur = -9.0, depth = 9
iter = 16865, queue = 24574, heur = -9.0, depth = 9
iter = 16866, queue = 24575, heur = -9.0, depth = 9
iter = 16867, queue = 24577, heur = -9.0, depth = 9
iter = 16868, queue = 24580, heur = -9.0, depth = 9
iter = 16869, queue = 24581, heur = -9.0, depth = 9
iter = 16870, queue = 24582, heur = -9.0, depth = 9
iter = 16871, queue = 24581, heur = -9.0, depth = 9
iter = 16872, queue = 24581, heur = -9.0, depth = 9
```

```
iter = 16873, queue = 24583, heur = -9.0, depth = 9
iter = 16874, queue = 24585, heur = -9.0, depth = 9
iter = 16875, queue = 24585, heur = -9.0, depth = 9
iter = 16876, queue = 24588, heur = -9.0, depth = 9
iter = 16877, queue = 24587, heur = -9.0, depth = 9
iter = 16878, queue = 24587, heur = -9.0, depth = 9
iter = 16879, queue = 24590, heur = -9.0, depth = 9
iter = 16880, queue = 24591, heur = -9.0, depth = 9
iter = 16881, queue = 24593, heur = -9.0, depth = 9
iter = 16882, queue = 24596, heur = -9.0, depth = 9
iter = 16883, queue = 24598, heur = -9.0, depth = 9
iter = 16884, queue = 24599, heur = -9.0, depth = 9
iter = 16885, queue = 24602, heur = -9.0, depth = 9
iter = 16886, queue = 24603, heur = -9.0, depth = 9
iter = 16887, queue = 24604, heur = -9.0, depth = 9
iter = 16888, queue = 24604, heur = -9.0, depth = 9
iter = 16889, queue = 24603, heur = -9.0, depth = 9
iter = 16890, queue = 24606, heur = -9.0, depth = 9
iter = 16891, queue = 24609, heur = -9.0, depth = 9
iter = 16892, queue = 24610, heur = -9.0, depth = 9
iter = 16893, queue = 24610, heur = -9.0, depth = 9
iter = 16894, queue = 24609, heur = -9.0, depth = 9
iter = 16895, queue = 24610, heur = -9.0, depth = 9
iter = 16896, queue = 24613, heur = -9.0, depth = 9
iter = 16897, queue = 24614, heur = -9.0, depth = 10
iter = 16898, queue = 24617, heur = -9.0, depth = 9
iter = 16899, queue = 24619, heur = -9.0, depth = 9
iter = 16900, queue = 24618, heur = -9.0, depth = 9
iter = 16901, queue = 24619, heur = -9.0, depth = 9
iter = 16902, queue = 24618, heur = -9.0, depth = 9
iter = 16903, queue = 24620, heur = -9.0, depth = 9
iter = 16904, queue = 24622, heur = -9.0, depth = 9
iter = 16905, queue = 24623, heur = -9.0, depth = 9
iter = 16906, queue = 24623, heur = -9.0, depth = 10
iter = 16907, queue = 24624, heur = -9.0, depth = 9
iter = 16908, queue = 24627, heur = -9.0, depth = 9
iter = 16909, queue = 24626, heur = -9.0, depth = 9
iter = 16910, queue = 24625, heur = -9.0, depth = 9
iter = 16911, queue = 24625, heur = -9.0, depth = 9
iter = 16912, queue = 24625, heur = -9.0, depth = 9
iter = 16913, queue = 24625, heur = -9.0, depth = 9
iter = 16914, queue = 24628, heur = -9.0, depth = 9
iter = 16915, queue = 24630, heur = -9.0, depth = 9
iter = 16916, queue = 24631, heur = -9.0, depth = 9
iter = 16917, queue = 24630, heur = -9.0, depth = 9
iter = 16918, queue = 24629, heur = -9.0, depth = 9
iter = 16919, queue = 24631, heur = -9.0, depth = 9
iter = 16920, queue = 24633, heur = -9.0, depth = 9
iter = 16921, queue = 24634, heur = -9.0, depth = 9
iter = 16922, queue = 24633, heur = -9.0, depth = 9
iter = 16923, queue = 24635, heur = -9.0, depth = 9
iter = 16924, queue = 24635, heur = -9.0, depth = 9
iter = 16925, queue = 24636, heur = -9.0, depth = 9
iter = 16926, queue = 24637, heur = -9.0, depth = 9
iter = 16927, queue = 24638, heur = -9.0, depth = 9
iter = 16928, queue = 24640, heur = -9.0, depth = 9
iter = 16929, queue = 24639, heur = -9.0, depth = 9
iter = 16930, queue = 24639, heur = -9.0, depth = 9
iter = 16931, queue = 24642, heur = -9.0, depth = 9
```

```
iter = 16932, queue = 24643, heur = -9.0, depth = 9
iter = 16933, queue = 24644, heur = -9.0, depth = 9
iter = 16934, queue = 24644, heur = -9.0, depth = 9
iter = 16935, queue = 24643, heur = -9.0, depth = 9
iter = 16936, queue = 24643, heur = -9.0, depth = 9
iter = 16937, queue = 24646, heur = -9.0, depth = 9
iter = 16938, queue = 24647, heur = -9.0, depth = 9
iter = 16939, queue = 24650, heur = -9.0, depth = 9
iter = 16940, queue = 24653, heur = -9.0, depth = 9
iter = 16941, queue = 24654, heur = -9.0, depth = 9
iter = 16942, queue = 24655, heur = -9.0, depth = 9
iter = 16943, queue = 24656, heur = -9.0, depth = 9
iter = 16944, queue = 24657, heur = -9.0, depth = 9
iter = 16945, queue = 24658, heur = -9.0, depth = 9
iter = 16946, queue = 24661, heur = -9.0, depth = 9
iter = 16947, queue = 24664, heur = -9.0, depth = 9
iter = 16948, queue = 24665, heur = -9.0, depth = 9
iter = 16949, queue = 24666, heur = -9.0, depth = 9
iter = 16950, queue = 24667, heur = -9.0, depth = 9
iter = 16951, queue = 24668, heur = -9.0, depth = 9
iter = 16952, queue = 24671, heur = -9.0, depth = 9
iter = 16953, queue = 24673, heur = -9.0, depth = 9
iter = 16954, queue = 24674, heur = -9.0, depth = 9
iter = 16955, queue = 24677, heur = -9.0, depth = 9
iter = 16956, queue = 24678, heur = -9.0, depth = 9
iter = 16957, queue = 24677, heur = -9.0, depth = 9
iter = 16958, queue = 24677, heur = -9.0, depth = 10
iter = 16959, queue = 24678, heur = -9.0, depth = 9
iter = 16960, queue = 24678, heur = -9.0, depth = 9
iter = 16961, queue = 24681, heur = -9.0, depth = 10
iter = 16962, queue = 24682, heur = -9.0, depth = 10
iter = 16963, queue = 24683, heur = -9.0, depth = 9
iter = 16964, queue = 24684, heur = -9.0, depth = 10
iter = 16965, queue = 24687, heur = -9.0, depth = 11
iter = 16966, queue = 24689, heur = -9.0, depth = 9
iter = 16967, queue = 24690, heur = -9.0, depth = 9
iter = 16968, queue = 24691, heur = -9.0, depth = 9
iter = 16969, queue = 24692, heur = -9.0, depth = 9
iter = 16970, queue = 24693, heur = -9.0, depth = 9
iter = 16971, queue = 24692, heur = -9.0, depth = 9
iter = 16972, queue = 24693, heur = -9.0, depth = 9
iter = 16973, queue = 24696, heur = -9.0, depth = 9
iter = 16974, queue = 24697, heur = -9.0, depth = 9
iter = 16975, queue = 24698, heur = -9.0, depth = 11
iter = 16976, queue = 24701, heur = -9.0, depth = 11
iter = 16977, queue = 24704, heur = -9.0, depth = 11
iter = 16978, queue = 24707, heur = -9.0, depth = 10
iter = 16979, queue = 24710, heur = -9.0, depth = 10
iter = 16980, queue = 24713, heur = -9.0, depth = 9
iter = 16981, queue = 24713, heur = -9.0, depth = 9
iter = 16982, queue = 24716, heur = -9.0, depth = 11
iter = 16983, queue = 24718, heur = -9.0, depth = 9
iter = 16984, queue = 24721, heur = -9.0, depth = 9
iter = 16985, queue = 24722, heur = -9.0, depth = 9
iter = 16986, queue = 24725, heur = -9.0, depth = 9
iter = 16987, queue = 24728, heur = -9.0, depth = 10
iter = 16988, queue = 24730, heur = -9.0, depth = 9
iter = 16989, queue = 24731, heur = -9.0, depth = 9
iter = 16990, queue = 24730, heur = -9.0, depth = 9
```

```
iter = 16991, queue = 24733, heur = -9.0, depth = 9
iter = 16992, queue = 24736, heur = -9.0, depth = 9
iter = 16993, queue = 24736, heur = -9.0, depth = 9
iter = 16994, queue = 24739, heur = -9.0, depth = 9
iter = 16995, queue = 24740, heur = -9.0, depth = 9
iter = 16996, queue = 24741, heur = -9.0, depth = 9
iter = 16997, queue = 24741, heur = -9.0, depth = 9
iter = 16998, queue = 24740, heur = -9.0, depth = 9
iter = 16999, queue = 24741, heur = -9.0, depth = 10
iter = 17000, queue = 24742, heur = -9.0, depth = 9
iter = 17001, queue = 24742, heur = -9.0, depth = 11
iter = 17002, queue = 24743, heur = -9.0, depth = 9
iter = 17003, queue = 24744, heur = -9.0, depth = 9
iter = 17004, queue = 24745, heur = -9.0, depth = 10
iter = 17005, queue = 24746, heur = -9.0, depth = 10
iter = 17006, queue = 24747, heur = -9.0, depth = 9
iter = 17007, queue = 24748, heur = -9.0, depth = 9
iter = 17008, queue = 24749, heur = -9.0, depth = 9
iter = 17009, queue = 24749, heur = -9.0, depth = 9
iter = 17010, queue = 24750, heur = -9.0, depth = 9
iter = 17011, queue = 24753, heur = -9.0, depth = 9
iter = 17012, queue = 24755, heur = -9.0, depth = 9
iter = 17013, queue = 24758, heur = -9.0, depth = 9
iter = 17014, queue = 24761, heur = -9.0, depth = 9
iter = 17015, queue = 24762, heur = -9.0, depth = 9
iter = 17016, queue = 24763, heur = -9.0, depth = 9
iter = 17017, queue = 24764, heur = -9.0, depth = 9
iter = 17018, queue = 24766, heur = -9.0, depth = 9
iter = 17019, queue = 24767, heur = -9.0, depth = 9
iter = 17020, queue = 24768, heur = -9.0, depth = 9
iter = 17021, queue = 24769, heur = -9.0, depth = 9
iter = 17022, queue = 24769, heur = -9.0, depth = 9
iter = 17023, queue = 24770, heur = -9.0, depth = 9
iter = 17024, queue = 24772, heur = -9.0, depth = 9
iter = 17025, queue = 24774, heur = -9.0, depth = 10
iter = 17026, queue = 24776, heur = -9.0, depth = 9
iter = 17027, queue = 24777, heur = -9.0, depth = 13
iter = 17028, queue = 24778, heur = -9.0, depth = 10
iter = 17029, queue = 24781, heur = -9.0, depth = 10
iter = 17030, queue = 24784, heur = -9.0, depth = 9
iter = 17031, queue = 24786, heur = -9.0, depth = 9
iter = 17032, queue = 24789, heur = -9.0, depth = 9
iter = 17033, queue = 24789, heur = -9.0, depth = 10
iter = 17034, queue = 24790, heur = -9.0, depth = 9
iter = 17035, queue = 24791, heur = -9.0, depth = 9
iter = 17036, queue = 24791, heur = -9.0, depth = 9
iter = 17037, queue = 24792, heur = -9.0, depth = 9
iter = 17038, queue = 24794, heur = -9.0, depth = 9
iter = 17039, queue = 24794, heur = -9.0, depth = 9
iter = 17040, queue = 24797, heur = -9.0, depth = 9
iter = 17041, queue = 24796, heur = -9.0, depth = 9
iter = 17042, queue = 24797, heur = -9.0, depth = 12
iter = 17043, queue = 24798, heur = -9.0, depth = 9
iter = 17044, queue = 24800, heur = -9.0, depth = 9
iter = 17045, queue = 24801, heur = -9.0, depth = 9
iter = 17046, queue = 24803, heur = -9.0, depth = 9
iter = 17047, queue = 24802, heur = -9.0, depth = 9
iter = 17048, queue = 24802, heur = -9.0, depth = 9
iter = 17049, queue = 24802, heur = -9.0, depth = 9
```

```
iter = 17050, queue = 24805, heur = -9.0, depth = 9
iter = 17051, queue = 24808, heur = -9.0, depth = 10
iter = 17052, queue = 24811, heur = -9.0, depth = 9
iter = 17053, queue = 24813, heur = -9.0, depth = 9
iter = 17054, queue = 24815, heur = -9.0, depth = 9
iter = 17055, queue = 24816, heur = -9.0, depth = 9
iter = 17056, queue = 24815, heur = -9.0, depth = 9
iter = 17057, queue = 24816, heur = -9.0, depth = 9
iter = 17058, queue = 24818, heur = -9.0, depth = 9
iter = 17059, queue = 24820, heur = -9.0, depth = 9
iter = 17060, queue = 24821, heur = -9.0, depth = 9
iter = 17061, queue = 24820, heur = -9.0, depth = 9
iter = 17062, queue = 24821, heur = -9.0, depth = 9
iter = 17063, queue = 24822, heur = -9.0, depth = 9
iter = 17064, queue = 24823, heur = -9.0, depth = 9
iter = 17065, queue = 24824, heur = -9.0, depth = 9
iter = 17066, queue = 24825, heur = -9.0, depth = 9
iter = 17067, queue = 24826, heur = -9.0, depth = 9
iter = 17068, queue = 24826, heur = -9.0, depth = 9
iter = 17069, queue = 24827, heur = -9.0, depth = 9
iter = 17070, queue = 24829, heur = -9.0, depth = 9
iter = 17071, queue = 24832, heur = -9.0, depth = 9
iter = 17072, queue = 24833, heur = -9.0, depth = 9
iter = 17073, queue = 24836, heur = -9.0, depth = 9
iter = 17074, queue = 24837, heur = -9.0, depth = 9
iter = 17075, queue = 24839, heur = -9.0, depth = 9
iter = 17076, queue = 24839, heur = -9.0, depth = 9
iter = 17077, queue = 24840, heur = -9.0, depth = 9
iter = 17078, queue = 24841, heur = -9.0, depth = 9
iter = 17079, queue = 24842, heur = -9.0, depth = 9
iter = 17080, queue = 24845, heur = -9.0, depth = 9
iter = 17081, queue = 24848, heur = -9.0, depth = 9
iter = 17082, queue = 24848, heur = -9.0, depth = 9
iter = 17083, queue = 24849, heur = -9.0, depth = 9
iter = 17084, queue = 24850, heur = -9.0, depth = 9
iter = 17085, queue = 24849, heur = -9.0, depth = 10
iter = 17086, queue = 24850, heur = -9.0, depth = 9
iter = 17087, queue = 24852, heur = -9.0, depth = 9
iter = 17088, queue = 24855, heur = -9.0, depth = 9
iter = 17089, queue = 24856, heur = -9.0, depth = 10
iter = 17090, queue = 24857, heur = -9.0, depth = 9
iter = 17091, queue = 24858, heur = -9.0, depth = 9
iter = 17092, queue = 24861, heur = -9.0, depth = 9
iter = 17093, queue = 24862, heur = -9.0, depth = 9
iter = 17094, queue = 24862, heur = -9.0, depth = 9
iter = 17095, queue = 24862, heur = -9.0, depth = 9
iter = 17096, queue = 24862, heur = -9.0, depth = 10
iter = 17097, queue = 24864, heur = -9.0, depth = 9
iter = 17098, queue = 24864, heur = -9.0, depth = 9
iter = 17099, queue = 24863, heur = -9.0, depth = 9
iter = 17100, queue = 24863, heur = -9.0, depth = 9
iter = 17101, queue = 24862, heur = -9.0, depth = 9
iter = 17102, queue = 24863, heur = -9.0, depth = 9
iter = 17103, queue = 24864, heur = -9.0, depth = 9
iter = 17104, queue = 24865, heur = -9.0, depth = 10
iter = 17105, queue = 24867, heur = -9.0, depth = 9
iter = 17106, queue = 24868, heur = -9.0, depth = 9
iter = 17107, queue = 24870, heur = -9.0, depth = 10
iter = 17108, queue = 24873, heur = -9.0, depth = 10
```

```
iter = 17109, queue = 24876, heur = -9.0, depth = 9
iter = 17110, queue = 24877, heur = -9.0, depth = 9
iter = 17111, queue = 24879, heur = -9.0, depth = 9
iter = 17112, queue = 24882, heur = -9.0, depth = 9
iter = 17113, queue = 24883, heur = -9.0, depth = 9
iter = 17114, queue = 24884, heur = -9.0, depth = 9
iter = 17115, queue = 24884, heur = -9.0, depth = 9
iter = 17116, queue = 24887, heur = -9.0, depth = 9
iter = 17117, queue = 24890, heur = -9.0, depth = 9
iter = 17118, queue = 24891, heur = -9.0, depth = 9
iter = 17119, queue = 24892, heur = -9.0, depth = 9
iter = 17120, queue = 24893, heur = -9.0, depth = 9
iter = 17121, queue = 24896, heur = -9.0, depth = 10
iter = 17122, queue = 24897, heur = -9.0, depth = 9
iter = 17123, queue = 24896, heur = -9.0, depth = 9
iter = 17124, queue = 24896, heur = -9.0, depth = 9
iter = 17125, queue = 24895, heur = -9.0, depth = 9
iter = 17126, queue = 24896, heur = -9.0, depth = 9
iter = 17127, queue = 24897, heur = -9.0, depth = 9
iter = 17128, queue = 24897, heur = -9.0, depth = 9
iter = 17129, queue = 24898, heur = -9.0, depth = 9
iter = 17130, queue = 24897, heur = -9.0, depth = 10
iter = 17131, queue = 24898, heur = -9.0, depth = 9
iter = 17132, queue = 24899, heur = -9.0, depth = 9
iter = 17133, queue = 24901, heur = -9.0, depth = 9
iter = 17134, queue = 24902, heur = -9.0, depth = 9
iter = 17135, queue = 24903, heur = -9.0, depth = 9
iter = 17136, queue = 24904, heur = -9.0, depth = 9
iter = 17137, queue = 24905, heur = -9.0, depth = 9
iter = 17138, queue = 24907, heur = -9.0, depth = 9
iter = 17139, queue = 24909, heur = -9.0, depth = 9
iter = 17140, queue = 24908, heur = -9.0, depth = 10
iter = 17141, queue = 24911, heur = -9.0, depth = 9
iter = 17142, queue = 24914, heur = -9.0, depth = 9
iter = 17143, queue = 24916, heur = -9.0, depth = 9
iter = 17144, queue = 24918, heur = -9.0, depth = 9
iter = 17145, queue = 24919, heur = -9.0, depth = 9
iter = 17146, queue = 24921, heur = -9.0, depth = 9
iter = 17147, queue = 24923, heur = -9.0, depth = 9
iter = 17148, queue = 24924, heur = -9.0, depth = 9
iter = 17149, queue = 24926, heur = -9.0, depth = 9
iter = 17150, queue = 24927, heur = -9.0, depth = 9
iter = 17151, queue = 24928, heur = -9.0, depth = 10
iter = 17152, queue = 24931, heur = -9.0, depth = 9
iter = 17153, queue = 24932, heur = -9.0, depth = 9
iter = 17154, queue = 24935, heur = -9.0, depth = 9
iter = 17155, queue = 24936, heur = -9.0, depth = 9
iter = 17156, queue = 24939, heur = -9.0, depth = 9
iter = 17157, queue = 24940, heur = -9.0, depth = 9
iter = 17158, queue = 24943, heur = -9.0, depth = 9
iter = 17159, queue = 24946, heur = -9.0, depth = 9
iter = 17160, queue = 24947, heur = -9.0, depth = 9
iter = 17161, queue = 24948, heur = -9.0, depth = 9
iter = 17162, queue = 24950, heur = -9.0, depth = 9
iter = 17163, queue = 24953, heur = -9.0, depth = 9
iter = 17164, queue = 24956, heur = -9.0, depth = 9
iter = 17165, queue = 24955, heur = -9.0, depth = 9
iter = 17166, queue = 24956, heur = -9.0, depth = 9
iter = 17167, queue = 24958, heur = -9.0, depth = 9
```

```
iter = 17168, queue = 24961, heur = -9.0, depth = 9
iter = 17169, queue = 24962, heur = -9.0, depth = 9
iter = 17170, queue = 24961, heur = -9.0, depth = 9
iter = 17171, queue = 24964, heur = -9.0, depth = 9
iter = 17172, queue = 24966, heur = -9.0, depth = 10
iter = 17173, queue = 24966, heur = -9.0, depth = 9
iter = 17174, queue = 24966, heur = -9.0, depth = 9
iter = 17175, queue = 24968, heur = -9.0, depth = 9
iter = 17176, queue = 24971, heur = -9.0, depth = 9
iter = 17177, queue = 24974, heur = -9.0, depth = 9
iter = 17178, queue = 24976, heur = -9.0, depth = 9
iter = 17179, queue = 24978, heur = -9.0, depth = 9
iter = 17180, queue = 24977, heur = -9.0, depth = 9
iter = 17181, queue = 24977, heur = -9.0, depth = 9
iter = 17182, queue = 24978, heur = -9.0, depth = 9
iter = 17183, queue = 24979, heur = -9.0, depth = 9
iter = 17184, queue = 24982, heur = -9.0, depth = 9
iter = 17185, queue = 24984, heur = -9.0, depth = 9
iter = 17186, queue = 24985, heur = -9.0, depth = 9
iter = 17187, queue = 24986, heur = -9.0, depth = 9
iter = 17188, queue = 24986, heur = -9.0, depth = 9
iter = 17189, queue = 24988, heur = -9.0, depth = 9
iter = 17190, queue = 24991, heur = -9.0, depth = 9
iter = 17191, queue = 24991, heur = -9.0, depth = 9
iter = 17192, queue = 24994, heur = -9.0, depth = 9
iter = 17193, queue = 24993, heur = -9.0, depth = 9
iter = 17194, queue = 24995, heur = -9.0, depth = 9
iter = 17195, queue = 24994, heur = -9.0, depth = 9
iter = 17196, queue = 24996, heur = -9.0, depth = 9
iter = 17197, queue = 24998, heur = -9.0, depth = 9
iter = 17198, queue = 25000, heur = -9.0, depth = 9
iter = 17199, queue = 25003, heur = -9.0, depth = 9
iter = 17200, queue = 25004, heur = -9.0, depth = 9
iter = 17201, queue = 25003, heur = -9.0, depth = 9
iter = 17202, queue = 25005, heur = -9.0, depth = 9
iter = 17203, queue = 25006, heur = -9.0, depth = 9
iter = 17204, queue = 25007, heur = -9.0, depth = 9
iter = 17205, queue = 25006, heur = -9.0, depth = 9
iter = 17206, queue = 25007, heur = -9.0, depth = 10
iter = 17207, queue = 25010, heur = -9.0, depth = 9
iter = 17208, queue = 25011, heur = -9.0, depth = 9
iter = 17209, queue = 25012, heur = -9.0, depth = 9
iter = 17210, queue = 25015, heur = -9.0, depth = 9
iter = 17211, queue = 25018, heur = -9.0, depth = 9
iter = 17212, queue = 25021, heur = -9.0, depth = 9
iter = 17213, queue = 25024, heur = -9.0, depth = 9
iter = 17214, queue = 25023, heur = -9.0, depth = 9
iter = 17215, queue = 25024, heur = -9.0, depth = 9
iter = 17216, queue = 25027, heur = -9.0, depth = 9
iter = 17217, queue = 25029, heur = -9.0, depth = 9
iter = 17218, queue = 25030, heur = -9.0, depth = 9
iter = 17219, queue = 25029, heur = -9.0, depth = 9
iter = 17220, queue = 25030, heur = -9.0, depth = 10
iter = 17221, queue = 25033, heur = -9.0, depth = 9
iter = 17222, queue = 25035, heur = -9.0, depth = 9
iter = 17223, queue = 25038, heur = -9.0, depth = 9
iter = 17224, queue = 25041, heur = -9.0, depth = 9
iter = 17225, queue = 25042, heur = -9.0, depth = 9
iter = 17226, queue = 25043, heur = -9.0, depth = 9
```

```
iter = 17227, queue = 25044, heur = -9.0, depth = 9
iter = 17228, queue = 25047, heur = -9.0, depth = 9
iter = 17229, queue = 25048, heur = -9.0, depth = 10
iter = 17230, queue = 25049, heur = -9.0, depth = 9
iter = 17231, queue = 25050, heur = -9.0, depth = 9
iter = 17232, queue = 25053, heur = -9.0, depth = 9
iter = 17233, queue = 25054, heur = -9.0, depth = 9
iter = 17234, queue = 25055, heur = -9.0, depth = 9
iter = 17235, queue = 25056, heur = -9.0, depth = 9
iter = 17236, queue = 25059, heur = -9.0, depth = 9
iter = 17237, queue = 25061, heur = -9.0, depth = 9
iter = 17238, queue = 25060, heur = -9.0, depth = 9
iter = 17239, queue = 25061, heur = -9.0, depth = 9
iter = 17240, queue = 25064, heur = -9.0, depth = 9
iter = 17241, queue = 25067, heur = -9.0, depth = 9
iter = 17242, queue = 25067, heur = -9.0, depth = 9
iter = 17243, queue = 25068, heur = -9.0, depth = 9
iter = 17244, queue = 25068, heur = -9.0, depth = 9
iter = 17245, queue = 25071, heur = -9.0, depth = 9
iter = 17246, queue = 25072, heur = -9.0, depth = 9
iter = 17247, queue = 25074, heur = -9.0, depth = 9
iter = 17248, queue = 25073, heur = -9.0, depth = 9
iter = 17249, queue = 25072, heur = -9.0, depth = 9
iter = 17250, queue = 25073, heur = -9.0, depth = 9
iter = 17251, queue = 25075, heur = -9.0, depth = 9
iter = 17252, queue = 25076, heur = -9.0, depth = 9
iter = 17253, queue = 25077, heur = -9.0, depth = 9
iter = 17254, queue = 25076, heur = -9.0, depth = 9
iter = 17255, queue = 25075, heur = -9.0, depth = 9
iter = 17256, queue = 25077, heur = -9.0, depth = 9
iter = 17257, queue = 25080, heur = -9.0, depth = 9
iter = 17258, queue = 25083, heur = -9.0, depth = 9
iter = 17259, queue = 25085, heur = -9.0, depth = 9
iter = 17260, queue = 25085, heur = -9.0, depth = 9
iter = 17261, queue = 25084, heur = -9.0, depth = 9
iter = 17262, queue = 25083, heur = -9.0, depth = 9
iter = 17263, queue = 25085, heur = -9.0, depth = 9
iter = 17264, queue = 25085, heur = -9.0, depth = 9
iter = 17265, queue = 25087, heur = -9.0, depth = 9
iter = 17266, queue = 25088, heur = -9.0, depth = 9
iter = 17267, queue = 25091, heur = -9.0, depth = 9
iter = 17268, queue = 25091, heur = -9.0, depth = 9
iter = 17269, queue = 25092, heur = -9.0, depth = 9
iter = 17270, queue = 25094, heur = -9.0, depth = 9
iter = 17271, queue = 25094, heur = -9.0, depth = 9
iter = 17272, queue = 25095, heur = -9.0, depth = 9
iter = 17273, queue = 25096, heur = -9.0, depth = 9
iter = 17274, queue = 25095, heur = -9.0, depth = 9
iter = 17275, queue = 25094, heur = -9.0, depth = 9
iter = 17276, queue = 25097, heur = -9.0, depth = 10
iter = 17277, queue = 25100, heur = -9.0, depth = 9
iter = 17278, queue = 25100, heur = -9.0, depth = 10
iter = 17279, queue = 25103, heur = -9.0, depth = 10
iter = 17280, queue = 25106, heur = -9.0, depth = 9
iter = 17281, queue = 25107, heur = -9.0, depth = 9
iter = 17282, queue = 25109, heur = -9.0, depth = 9
iter = 17283, queue = 25110, heur = -9.0, depth = 9
iter = 17284, queue = 25110, heur = -9.0, depth = 9
iter = 17285, queue = 25112, heur = -9.0, depth = 9
```

```
iter = 17286, queue = 25114, heur = -9.0, depth = 9
iter = 17287, queue = 25115, heur = -9.0, depth = 9
iter = 17288, queue = 25116, heur = -9.0, depth = 9
iter = 17289, queue = 25117, heur = -9.0, depth = 11
iter = 17290, queue = 25118, heur = -9.0, depth = 9
iter = 17291, queue = 25120, heur = -9.0, depth = 9
iter = 17292, queue = 25123, heur = -9.0, depth = 9
iter = 17293, queue = 25126, heur = -9.0, depth = 9
iter = 17294, queue = 25129, heur = -9.0, depth = 9
iter = 17295, queue = 25130, heur = -9.0, depth = 9
iter = 17296, queue = 25131, heur = -9.0, depth = 9
iter = 17297, queue = 25134, heur = -9.0, depth = 9
iter = 17298, queue = 25135, heur = -9.0, depth = 9
iter = 17299, queue = 25134, heur = -9.0, depth = 9
iter = 17300, queue = 25137, heur = -9.0, depth = 9
iter = 17301, queue = 25139, heur = -9.0, depth = 9
iter = 17302, queue = 25140, heur = -9.0, depth = 9
iter = 17303, queue = 25143, heur = -9.0, depth = 9
iter = 17304, queue = 25146, heur = -9.0, depth = 9
iter = 17305, queue = 25148, heur = -9.0, depth = 9
iter = 17306, queue = 25151, heur = -9.0, depth = 9
iter = 17307, queue = 25152, heur = -9.0, depth = 10
iter = 17308, queue = 25153, heur = -9.0, depth = 10
iter = 17309, queue = 25155, heur = -9.0, depth = 9
iter = 17310, queue = 25155, heur = -9.0, depth = 9
iter = 17311, queue = 25154, heur = -9.0, depth = 9
iter = 17312, queue = 25157, heur = -9.0, depth = 9
iter = 17313, queue = 25157, heur = -9.0, depth = 9
iter = 17314, queue = 25158, heur = -9.0, depth = 9
iter = 17315, queue = 25159, heur = -9.0, depth = 9
iter = 17316, queue = 25160, heur = -9.0, depth = 9
iter = 17317, queue = 25159, heur = -9.0, depth = 9
iter = 17318, queue = 25160, heur = -9.0, depth = 9
iter = 17319, queue = 25162, heur = -9.0, depth = 9
iter = 17320, queue = 25162, heur = -9.0, depth = 9
iter = 17321, queue = 25161, heur = -9.0, depth = 9
iter = 17322, queue = 25162, heur = -9.0, depth = 9
iter = 17323, queue = 25161, heur = -9.0, depth = 9
iter = 17324, queue = 25162, heur = -9.0, depth = 9
iter = 17325, queue = 25165, heur = -9.0, depth = 9
iter = 17326, queue = 25167, heur = -9.0, depth = 9
iter = 17327, queue = 25169, heur = -9.0, depth = 9
iter = 17328, queue = 25172, heur = -9.0, depth = 9
iter = 17329, queue = 25173, heur = -9.0, depth = 9
iter = 17330, queue = 25175, heur = -9.0, depth = 9
iter = 17331, queue = 25174, heur = -9.0, depth = 9
iter = 17332, queue = 25176, heur = -9.0, depth = 9
iter = 17333, queue = 25177, heur = -9.0, depth = 9
iter = 17334, queue = 25176, heur = -9.0, depth = 9
iter = 17335, queue = 25175, heur = -9.0, depth = 9
iter = 17336, queue = 25178, heur = -9.0, depth = 9
iter = 17337, queue = 25177, heur = -9.0, depth = 9
iter = 17338, queue = 25179, heur = -9.0, depth = 10
iter = 17339, queue = 25181, heur = -9.0, depth = 10
iter = 17340, queue = 25182, heur = -9.0, depth = 9
iter = 17341, queue = 25183, heur = -9.0, depth = 10
iter = 17342, queue = 25184, heur = -9.0, depth = 9
iter = 17343, queue = 25185, heur = -9.0, depth = 9
iter = 17344, queue = 25187, heur = -9.0, depth = 9
```

```
iter = 17345, queue = 25186, heur = -9.0, depth = 9
iter = 17346, queue = 25188, heur = -9.0, depth = 9
iter = 17347, queue = 25187, heur = -9.0, depth = 9
iter = 17348, queue = 25187, heur = -9.0, depth = 9
iter = 17349, queue = 25188, heur = -9.0, depth = 9
iter = 17350, queue = 25188, heur = -9.0, depth = 9
iter = 17351, queue = 25188, heur = -9.0, depth = 9
iter = 17352, queue = 25189, heur = -9.0, depth = 9
iter = 17353, queue = 25190, heur = -9.0, depth = 9
iter = 17354, queue = 25191, heur = -9.0, depth = 9
iter = 17355, queue = 25192, heur = -9.0, depth = 9
iter = 17356, queue = 25194, heur = -9.0, depth = 9
iter = 17357, queue = 25196, heur = -9.0, depth = 10
iter = 17358, queue = 25197, heur = -9.0, depth = 9
iter = 17359, queue = 25197, heur = -9.0, depth = 10
iter = 17360, queue = 25199, heur = -9.0, depth = 9
iter = 17361, queue = 25200, heur = -9.0, depth = 9
iter = 17362, queue = 25202, heur = -9.0, depth = 9
iter = 17363, queue = 25203, heur = -9.0, depth = 9
iter = 17364, queue = 25204, heur = -9.0, depth = 9
iter = 17365, queue = 25205, heur = -9.0, depth = 9
iter = 17366, queue = 25208, heur = -9.0, depth = 9
iter = 17367, queue = 25209, heur = -9.0, depth = 9
iter = 17368, queue = 25212, heur = -9.0, depth = 9
iter = 17369, queue = 25213, heur = -9.0, depth = 9
iter = 17370, queue = 25214, heur = -9.0, depth = 9
iter = 17371, queue = 25215, heur = -9.0, depth = 9
iter = 17372, queue = 25215, heur = -9.0, depth = 10
iter = 17373, queue = 25218, heur = -9.0, depth = 9
iter = 17374, queue = 25217, heur = -9.0, depth = 10
iter = 17375, queue = 25219, heur = -9.0, depth = 10
iter = 17376, queue = 25221, heur = -9.0, depth = 9
iter = 17377, queue = 25222, heur = -9.0, depth = 9
iter = 17378, queue = 25221, heur = -9.0, depth = 10
iter = 17379, queue = 25222, heur = -9.0, depth = 10
iter = 17380, queue = 25223, heur = -9.0, depth = 9
iter = 17381, queue = 25224, heur = -9.0, depth = 9
iter = 17382, queue = 25225, heur = -9.0, depth = 9
iter = 17383, queue = 25226, heur = -9.0, depth = 9
iter = 17384, queue = 25227, heur = -9.0, depth = 9
iter = 17385, queue = 25230, heur = -9.0, depth = 9
iter = 17386, queue = 25230, heur = -9.0, depth = 9
iter = 17387, queue = 25233, heur = -9.0, depth = 9
iter = 17388, queue = 25234, heur = -9.0, depth = 10
iter = 17389, queue = 25235, heur = -9.0, depth = 9
iter = 17390, queue = 25234, heur = -9.0, depth = 9
iter = 17391, queue = 25235, heur = -9.0, depth = 9
iter = 17392, queue = 25237, heur = -9.0, depth = 10
iter = 17393, queue = 25239, heur = -9.0, depth = 10
iter = 17394, queue = 25242, heur = -9.0, depth = 9
iter = 17395, queue = 25241, heur = -9.0, depth = 10
iter = 17396, queue = 25244, heur = -9.0, depth = 10
iter = 17397, queue = 25245, heur = -9.0, depth = 9
iter = 17398, queue = 25247, heur = -9.0, depth = 9
iter = 17399, queue = 25248, heur = -9.0, depth = 9
iter = 17400, queue = 25247, heur = -9.0, depth = 9
iter = 17401, queue = 25248, heur = -9.0, depth = 9
iter = 17402, queue = 25250, heur = -9.0, depth = 9
iter = 17403, queue = 25252, heur = -9.0, depth = 9
```

```
iter = 17404, queue = 25252, heur = -9.0, depth = 9
iter = 17405, queue = 25253, heur = -9.0, depth = 9
iter = 17406, queue = 25256, heur = -9.0, depth = 9
iter = 17407, queue = 25258, heur = -9.0, depth = 9
iter = 17408, queue = 25257, heur = -9.0, depth = 9
iter = 17409, queue = 25258, heur = -9.0, depth = 9
iter = 17410, queue = 25258, heur = -9.0, depth = 9
iter = 17411, queue = 25261, heur = -9.0, depth = 9
iter = 17412, queue = 25262, heur = -9.0, depth = 9
iter = 17413, queue = 25265, heur = -9.0, depth = 9
iter = 17414, queue = 25268, heur = -9.0, depth = 9
iter = 17415, queue = 25267, heur = -9.0, depth = 9
iter = 17416, queue = 25266, heur = -9.0, depth = 9
iter = 17417, queue = 25267, heur = -9.0, depth = 9
iter = 17418, queue = 25268, heur = -9.0, depth = 9
iter = 17419, queue = 25267, heur = -9.0, depth = 9
iter = 17420, queue = 25266, heur = -9.0, depth = 9
iter = 17421, queue = 25268, heur = -9.0, depth = 9
iter = 17422, queue = 25269, heur = -9.0, depth = 9
iter = 17423, queue = 25270, heur = -9.0, depth = 9
iter = 17424, queue = 25270, heur = -9.0, depth = 9
iter = 17425, queue = 25272, heur = -9.0, depth = 9
iter = 17426, queue = 25273, heur = -9.0, depth = 9
iter = 17427, queue = 25276, heur = -9.0, depth = 9
iter = 17428, queue = 25277, heur = -9.0, depth = 10
iter = 17429, queue = 25279, heur = -9.0, depth = 9
iter = 17430, queue = 25280, heur = -9.0, depth = 9
iter = 17431, queue = 25281, heur = -9.0, depth = 9
iter = 17432, queue = 25284, heur = -9.0, depth = 9
iter = 17433, queue = 25284, heur = -9.0, depth = 9
iter = 17434, queue = 25284, heur = -9.0, depth = 9
iter = 17435, queue = 25285, heur = -9.0, depth = 10
iter = 17436, queue = 25286, heur = -9.0, depth = 9
iter = 17437, queue = 25286, heur = -9.0, depth = 9
iter = 17438, queue = 25287, heur = -9.0, depth = 9
iter = 17439, queue = 25286, heur = -9.0, depth = 9
iter = 17440, queue = 25287, heur = -9.0, depth = 9
iter = 17441, queue = 25288, heur = -9.0, depth = 9
iter = 17442, queue = 25288, heur = -9.0, depth = 9
iter = 17443, queue = 25289, heur = -9.0, depth = 10
iter = 17444, queue = 25291, heur = -9.0, depth = 9
iter = 17445, queue = 25292, heur = -9.0, depth = 11
iter = 17446, queue = 25295, heur = -9.0, depth = 11
iter = 17447, queue = 25297, heur = -9.0, depth = 9
iter = 17448, queue = 25297, heur = -9.0, depth = 10
iter = 17449, queue = 25298, heur = -9.0, depth = 10
iter = 17450, queue = 25299, heur = -9.0, depth = 9
iter = 17451, queue = 25300, heur = -9.0, depth = 9
iter = 17452, queue = 25301, heur = -9.0, depth = 11
iter = 17453, queue = 25302, heur = -9.0, depth = 9
iter = 17454, queue = 25303, heur = -9.0, depth = 9
iter = 17455, queue = 25305, heur = -9.0, depth = 9
iter = 17456, queue = 25306, heur = -9.0, depth = 9
iter = 17457, queue = 25309, heur = -9.0, depth = 9
iter = 17458, queue = 25312, heur = -9.0, depth = 9
iter = 17459, queue = 25315, heur = -9.0, depth = 9
iter = 17460, queue = 25316, heur = -9.0, depth = 11
iter = 17461, queue = 25317, heur = -9.0, depth = 9
iter = 17462, queue = 25319, heur = -9.0, depth = 9
```

```
iter = 17463, queue = 25322, heur = -9.0, depth = 9
iter = 17464, queue = 25325, heur = -9.0, depth = 11
iter = 17465, queue = 25327, heur = -9.0, depth = 9
iter = 17466, queue = 25329, heur = -9.0, depth = 9
iter = 17467, queue = 25328, heur = -9.0, depth = 9
iter = 17468, queue = 25329, heur = -9.0, depth = 9
iter = 17469, queue = 25330, heur = -9.0, depth = 9
iter = 17470, queue = 25331, heur = -9.0, depth = 9
iter = 17471, queue = 25333, heur = -9.0, depth = 9
iter = 17472, queue = 25332, heur = -9.0, depth = 9
iter = 17473, queue = 25333, heur = -9.0, depth = 9
iter = 17474, queue = 25335, heur = -9.0, depth = 9
iter = 17475, queue = 25336, heur = -9.0, depth = 9
iter = 17476, queue = 25335, heur = -9.0, depth = 9
iter = 17477, queue = 25336, heur = -9.0, depth = 9
iter = 17478, queue = 25338, heur = -9.0, depth = 10
iter = 17479, queue = 25341, heur = -9.0, depth = 9
iter = 17480, queue = 25341, heur = -9.0, depth = 10
iter = 17481, queue = 25342, heur = -9.0, depth = 9
iter = 17482, queue = 25343, heur = -9.0, depth = 9
iter = 17483, queue = 25343, heur = -9.0, depth = 9
iter = 17484, queue = 25345, heur = -9.0, depth = 10
iter = 17485, queue = 25346, heur = -9.0, depth = 10
iter = 17486, queue = 25347, heur = -9.0, depth = 9
iter = 17487, queue = 25348, heur = -9.0, depth = 11
iter = 17488, queue = 25349, heur = -9.0, depth = 9
iter = 17489, queue = 25350, heur = -9.0, depth = 9
iter = 17490, queue = 25351, heur = -9.0, depth = 9
iter = 17491, queue = 25353, heur = -9.0, depth = 10
iter = 17492, queue = 25355, heur = -9.0, depth = 9
iter = 17493, queue = 25355, heur = -9.0, depth = 9
iter = 17494, queue = 25357, heur = -9.0, depth = 9
iter = 17495, queue = 25359, heur = -9.0, depth = 10
iter = 17496, queue = 25360, heur = -9.0, depth = 9
iter = 17497, queue = 25359, heur = -9.0, depth = 9
iter = 17498, queue = 25361, heur = -9.0, depth = 9
iter = 17499, queue = 25363, heur = -9.0, depth = 9
iter = 17500, queue = 25364, heur = -9.0, depth = 9
iter = 17501, queue = 25365, heur = -9.0, depth = 9
iter = 17502, queue = 25367, heur = -9.0, depth = 9
iter = 17503, queue = 25369, heur = -9.0, depth = 9
iter = 17504, queue = 25368, heur = -9.0, depth = 9
iter = 17505, queue = 25367, heur = -9.0, depth = 9
iter = 17506, queue = 25368, heur = -9.0, depth = 9
iter = 17507, queue = 25369, heur = -9.0, depth = 9
iter = 17508, queue = 25369, heur = -9.0, depth = 9
iter = 17509, queue = 25370, heur = -9.0, depth = 9
iter = 17510, queue = 25371, heur = -9.0, depth = 9
iter = 17511, queue = 25372, heur = -9.0, depth = 9
iter = 17512, queue = 25373, heur = -9.0, depth = 11
iter = 17513, queue = 25374, heur = -9.0, depth = 9
iter = 17514, queue = 25377, heur = -9.0, depth = 9
iter = 17515, queue = 25377, heur = -9.0, depth = 11
iter = 17516, queue = 25380, heur = -9.0, depth = 9
iter = 17517, queue = 25381, heur = -9.0, depth = 9
iter = 17518, queue = 25381, heur = -9.0, depth = 9
iter = 17519, queue = 25383, heur = -9.0, depth = 10
iter = 17520, queue = 25384, heur = -9.0, depth = 9
iter = 17521, queue = 25385, heur = -9.0, depth = 9
```

```
iter = 17522, queue = 25388, heur = -9.0, depth = 10
iter = 17523, queue = 25388, heur = -9.0, depth = 9
iter = 17524, queue = 25390, heur = -9.0, depth = 9
iter = 17525, queue = 25393, heur = -9.0, depth = 9
iter = 17526, queue = 25394, heur = -9.0, depth = 9
iter = 17527, queue = 25393, heur = -9.0, depth = 10
iter = 17528, queue = 25395, heur = -9.0, depth = 9
iter = 17529, queue = 25396, heur = -9.0, depth = 9
iter = 17530, queue = 25399, heur = -9.0, depth = 9
iter = 17531, queue = 25399, heur = -9.0, depth = 9
iter = 17532, queue = 25398, heur = -9.0, depth = 9
iter = 17533, queue = 25399, heur = -9.0, depth = 9
iter = 17534, queue = 25398, heur = -9.0, depth = 9
iter = 17535, queue = 25397, heur = -9.0, depth = 9
iter = 17536, queue = 25400, heur = -9.0, depth = 9
iter = 17537, queue = 25400, heur = -9.0, depth = 9
iter = 17538, queue = 25402, heur = -9.0, depth = 9
iter = 17539, queue = 25402, heur = -9.0, depth = 9
iter = 17540, queue = 25401, heur = -9.0, depth = 9
iter = 17541, queue = 25404, heur = -9.0, depth = 9
iter = 17542, queue = 25404, heur = -9.0, depth = 9
iter = 17543, queue = 25407, heur = -9.0, depth = 9
iter = 17544, queue = 25406, heur = -9.0, depth = 9
iter = 17545, queue = 25407, heur = -9.0, depth = 9
iter = 17546, queue = 25409, heur = -9.0, depth = 9
iter = 17547, queue = 25410, heur = -9.0, depth = 9
iter = 17548, queue = 25410, heur = -9.0, depth = 9
iter = 17549, queue = 25412, heur = -9.0, depth = 9
iter = 17550, queue = 25412, heur = -9.0, depth = 9
iter = 17551, queue = 25414, heur = -9.0, depth = 10
iter = 17552, queue = 25416, heur = -9.0, depth = 9
iter = 17553, queue = 25417, heur = -9.0, depth = 9
iter = 17554, queue = 25418, heur = -9.0, depth = 9
iter = 17555, queue = 25419, heur = -9.0, depth = 9
iter = 17556, queue = 25421, heur = -9.0, depth = 9
iter = 17557, queue = 25422, heur = -9.0, depth = 9
iter = 17558, queue = 25422, heur = -9.0, depth = 9
iter = 17559, queue = 25422, heur = -9.0, depth = 10
iter = 17560, queue = 25423, heur = -9.0, depth = 9
iter = 17561, queue = 25424, heur = -9.0, depth = 9
iter = 17562, queue = 25426, heur = -9.0, depth = 10
iter = 17563, queue = 25429, heur = -9.0, depth = 9
iter = 17564, queue = 25430, heur = -9.0, depth = 9
iter = 17565, queue = 25429, heur = -9.0, depth = 10
iter = 17566, queue = 25429, heur = -9.0, depth = 9
iter = 17567, queue = 25432, heur = -9.0, depth = 9
iter = 17568, queue = 25433, heur = -9.0, depth = 9
iter = 17569, queue = 25434, heur = -9.0, depth = 9
iter = 17570, queue = 25435, heur = -9.0, depth = 9
iter = 17571, queue = 25436, heur = -9.0, depth = 9
iter = 17572, queue = 25435, heur = -9.0, depth = 9
iter = 17573, queue = 25436, heur = -9.0, depth = 9
iter = 17574, queue = 25437, heur = -9.0, depth = 9
iter = 17575, queue = 25440, heur = -9.0, depth = 10
iter = 17576, queue = 25442, heur = -9.0, depth = 9
iter = 17577, queue = 25443, heur = -9.0, depth = 9
iter = 17578, queue = 25446, heur = -9.0, depth = 9
iter = 17579, queue = 25447, heur = -9.0, depth = 9
iter = 17580, queue = 25450, heur = -9.0, depth = 9
```

```
iter = 17581, queue = 25450, heur = -9.0, depth = 9
iter = 17582, queue = 25452, heur = -9.0, depth = 9
iter = 17583, queue = 25453, heur = -9.0, depth = 9
iter = 17584, queue = 25454, heur = -9.0, depth = 9
iter = 17585, queue = 25454, heur = -9.0, depth = 10
iter = 17586, queue = 25455, heur = -9.0, depth = 9
iter = 17587, queue = 25454, heur = -9.0, depth = 9
iter = 17588, queue = 25455, heur = -9.0, depth = 9
iter = 17589, queue = 25457, heur = -9.0, depth = 10
iter = 17590, queue = 25460, heur = -9.0, depth = 10
iter = 17591, queue = 25463, heur = -9.0, depth = 9
iter = 17592, queue = 25465, heur = -9.0, depth = 9
iter = 17593, queue = 25466, heur = -9.0, depth = 10
iter = 17594, queue = 25468, heur = -9.0, depth = 9
iter = 17595, queue = 25471, heur = -9.0, depth = 10
iter = 17596, queue = 25472, heur = -9.0, depth = 9
iter = 17597, queue = 25471, heur = -9.0, depth = 9
iter = 17598, queue = 25472, heur = -9.0, depth = 10
iter = 17599, queue = 25473, heur = -9.0, depth = 10
iter = 17600, queue = 25474, heur = -9.0, depth = 9
iter = 17601, queue = 25475, heur = -9.0, depth = 10
iter = 17602, queue = 25476, heur = -9.0, depth = 10
iter = 17603, queue = 25477, heur = -9.0, depth = 9
iter = 17604, queue = 25480, heur = -9.0, depth = 9
iter = 17605, queue = 25482, heur = -9.0, depth = 9
iter = 17606, queue = 25484, heur = -9.0, depth = 9
iter = 17607, queue = 25487, heur = -9.0, depth = 9
iter = 17608, queue = 25488, heur = -9.0, depth = 9
iter = 17609, queue = 25489, heur = -9.0, depth = 9
iter = 17610, queue = 25490, heur = -9.0, depth = 9
iter = 17611, queue = 25491, heur = -9.0, depth = 9
iter = 17612, queue = 25492, heur = -9.0, depth = 9
iter = 17613, queue = 25493, heur = -9.0, depth = 9
iter = 17614, queue = 25494, heur = -9.0, depth = 10
iter = 17615, queue = 25497, heur = -9.0, depth = 9
iter = 17616, queue = 25498, heur = -9.0, depth = 9
iter = 17617, queue = 25497, heur = -9.0, depth = 9
iter = 17618, queue = 25498, heur = -9.0, depth = 9
iter = 17619, queue = 25499, heur = -9.0, depth = 9
iter = 17620, queue = 25500, heur = -9.0, depth = 9
iter = 17621, queue = 25501, heur = -9.0, depth = 9
iter = 17622, queue = 25504, heur = -9.0, depth = 9
iter = 17623, queue = 25507, heur = -9.0, depth = 11
iter = 17624, queue = 25509, heur = -9.0, depth = 9
iter = 17625, queue = 25512, heur = -9.0, depth = 9
iter = 17626, queue = 25515, heur = -9.0, depth = 9
iter = 17627, queue = 25514, heur = -9.0, depth = 9
iter = 17628, queue = 25517, heur = -9.0, depth = 9
iter = 17629, queue = 25516, heur = -9.0, depth = 9
iter = 17630, queue = 25517, heur = -9.0, depth = 10
iter = 17631, queue = 25519, heur = -9.0, depth = 9
iter = 17632, queue = 25518, heur = -9.0, depth = 9
iter = 17633, queue = 25521, heur = -9.0, depth = 9
iter = 17634, queue = 25520, heur = -9.0, depth = 9
iter = 17635, queue = 25521, heur = -9.0, depth = 9
iter = 17636, queue = 25520, heur = -9.0, depth = 9
iter = 17637, queue = 25521, heur = -9.0, depth = 9
iter = 17638, queue = 25521, heur = -9.0, depth = 9
iter = 17639, queue = 25524, heur = -9.0, depth = 9
```

```
iter = 17640, queue = 25527, heur = -9.0, depth = 9
iter = 17641, queue = 25528, heur = -9.0, depth = 9
iter = 17642, queue = 25528, heur = -9.0, depth = 9
iter = 17643, queue = 25529, heur = -9.0, depth = 9
iter = 17644, queue = 25530, heur = -9.0, depth = 9
iter = 17645, queue = 25531, heur = -9.0, depth = 9
iter = 17646, queue = 25531, heur = -9.0, depth = 9
iter = 17647, queue = 25534, heur = -9.0, depth = 9
iter = 17648, queue = 25535, heur = -9.0, depth = 9
iter = 17649, queue = 25536, heur = -9.0, depth = 9
iter = 17650, queue = 25535, heur = -9.0, depth = 9
iter = 17651, queue = 25534, heur = -9.0, depth = 10
iter = 17652, queue = 25535, heur = -9.0, depth = 9
iter = 17653, queue = 25536, heur = -9.0, depth = 9
iter = 17654, queue = 25536, heur = -9.0, depth = 9
iter = 17655, queue = 25538, heur = -9.0, depth = 9
iter = 17656, queue = 25540, heur = -9.0, depth = 9
iter = 17657, queue = 25541, heur = -9.0, depth = 9
iter = 17658, queue = 25542, heur = -9.0, depth = 9
iter = 17659, queue = 25541, heur = -9.0, depth = 9
iter = 17660, queue = 25541, heur = -9.0, depth = 9
iter = 17661, queue = 25542, heur = -9.0, depth = 9
iter = 17662, queue = 25541, heur = -9.0, depth = 9
iter = 17663, queue = 25543, heur = -9.0, depth = 9
iter = 17664, queue = 25542, heur = -9.0, depth = 9
iter = 17665, queue = 25541, heur = -9.0, depth = 9
iter = 17666, queue = 25542, heur = -9.0, depth = 9
iter = 17667, queue = 25541, heur = -9.0, depth = 9
iter = 17668, queue = 25542, heur = -9.0, depth = 11
iter = 17669, queue = 25543, heur = -9.0, depth = 9
iter = 17670, queue = 25544, heur = -9.0, depth = 9
iter = 17671, queue = 25545, heur = -9.0, depth = 10
iter = 17672, queue = 25545, heur = -9.0, depth = 9
iter = 17673, queue = 25546, heur = -9.0, depth = 9
iter = 17674, queue = 25546, heur = -9.0, depth = 10
iter = 17675, queue = 25547, heur = -9.0, depth = 9
iter = 17676, queue = 25548, heur = -9.0, depth = 9
iter = 17677, queue = 25547, heur = -9.0, depth = 9
iter = 17678, queue = 25548, heur = -9.0, depth = 9
iter = 17679, queue = 25548, heur = -9.0, depth = 9
iter = 17680, queue = 25549, heur = -9.0, depth = 9
iter = 17681, queue = 25550, heur = -9.0, depth = 10
iter = 17682, queue = 25553, heur = -9.0, depth = 9
iter = 17683, queue = 25552, heur = -9.0, depth = 9
iter = 17684, queue = 25552, heur = -9.0, depth = 9
iter = 17685, queue = 25552, heur = -9.0, depth = 9
iter = 17686, queue = 25552, heur = -9.0, depth = 9
iter = 17687, queue = 25552, heur = -9.0, depth = 9
iter = 17688, queue = 25553, heur = -9.0, depth = 9
iter = 17689, queue = 25554, heur = -9.0, depth = 9
iter = 17690, queue = 25554, heur = -9.0, depth = 9
iter = 17691, queue = 25555, heur = -9.0, depth = 9
iter = 17692, queue = 25556, heur = -9.0, depth = 9
iter = 17693, queue = 25557, heur = -9.0, depth = 9
iter = 17694, queue = 25559, heur = -9.0, depth = 9
iter = 17695, queue = 25558, heur = -9.0, depth = 9
iter = 17696, queue = 25559, heur = -9.0, depth = 9
iter = 17697, queue = 25558, heur = -9.0, depth = 9
iter = 17698, queue = 25560, heur = -9.0, depth = 9
```

```
iter = 17699, queue = 25560, heur = -9.0, depth = 9
iter = 17700, queue = 25561, heur = -9.0, depth = 9
iter = 17701, queue = 25563, heur = -9.0, depth = 9
iter = 17702, queue = 25564, heur = -9.0, depth = 9
iter = 17703, queue = 25567, heur = -9.0, depth = 9
iter = 17704, queue = 25569, heur = -9.0, depth = 9
iter = 17705, queue = 25572, heur = -9.0, depth = 9
iter = 17706, queue = 25571, heur = -9.0, depth = 9
iter = 17707, queue = 25573, heur = -9.0, depth = 9
iter = 17708, queue = 25574, heur = -9.0, depth = 9
iter = 17709, queue = 25574, heur = -9.0, depth = 9
iter = 17710, queue = 25574, heur = -9.0, depth = 9
iter = 17711, queue = 25575, heur = -9.0, depth = 9
iter = 17712, queue = 25575, heur = -9.0, depth = 9
iter = 17713, queue = 25577, heur = -9.0, depth = 9
iter = 17714, queue = 25578, heur = -9.0, depth = 9
iter = 17715, queue = 25581, heur = -9.0, depth = 9
iter = 17716, queue = 25580, heur = -9.0, depth = 9
iter = 17717, queue = 25582, heur = -9.0, depth = 9
iter = 17718, queue = 25585, heur = -9.0, depth = 9
iter = 17719, queue = 25584, heur = -9.0, depth = 9
iter = 17720, queue = 25585, heur = -9.0, depth = 11
iter = 17721, queue = 25586, heur = -9.0, depth = 9
iter = 17722, queue = 25588, heur = -9.0, depth = 9
iter = 17723, queue = 25591, heur = -9.0, depth = 9
iter = 17724, queue = 25593, heur = -9.0, depth = 9
iter = 17725, queue = 25594, heur = -9.0, depth = 9
iter = 17726, queue = 25594, heur = -9.0, depth = 9
iter = 17727, queue = 25595, heur = -9.0, depth = 9
iter = 17728, queue = 25595, heur = -9.0, depth = 9
iter = 17729, queue = 25595, heur = -9.0, depth = 9
iter = 17730, queue = 25598, heur = -9.0, depth = 9
iter = 17731, queue = 25600, heur = -9.0, depth = 9
iter = 17732, queue = 25602, heur = -9.0, depth = 9
iter = 17733, queue = 25603, heur = -9.0, depth = 9
iter = 17734, queue = 25604, heur = -9.0, depth = 9
iter = 17735, queue = 25605, heur = -9.0, depth = 11
iter = 17736, queue = 25606, heur = -9.0, depth = 9
iter = 17737, queue = 25607, heur = -9.0, depth = 10
iter = 17738, queue = 25608, heur = -9.0, depth = 10
iter = 17739, queue = 25611, heur = -9.0, depth = 9
iter = 17740, queue = 25610, heur = -9.0, depth = 11
iter = 17741, queue = 25612, heur = -9.0, depth = 11
iter = 17742, queue = 25615, heur = -9.0, depth = 11
iter = 17743, queue = 25618, heur = -9.0, depth = 11
iter = 17744, queue = 25619, heur = -9.0, depth = 11
iter = 17745, queue = 25622, heur = -9.0, depth = 10
iter = 17746, queue = 25623, heur = -9.0, depth = 9
iter = 17747, queue = 25623, heur = -9.0, depth = 9
iter = 17748, queue = 25626, heur = -9.0, depth = 10
iter = 17749, queue = 25628, heur = -9.0, depth = 9
iter = 17750, queue = 25630, heur = -9.0, depth = 9
iter = 17751, queue = 25631, heur = -9.0, depth = 9
iter = 17752, queue = 25630, heur = -9.0, depth = 10
iter = 17753, queue = 25633, heur = -9.0, depth = 10
iter = 17754, queue = 25636, heur = -9.0, depth = 9
iter = 17755, queue = 25637, heur = -9.0, depth = 9
iter = 17756, queue = 25640, heur = -9.0, depth = 9
iter = 17757, queue = 25641, heur = -9.0, depth = 9
```

```
iter = 17758, queue = 25642, heur = -9.0, depth = 9
iter = 17759, queue = 25643, heur = -9.0, depth = 9
iter = 17760, queue = 25642, heur = -9.0, depth = 9
iter = 17761, queue = 25642, heur = -9.0, depth = 9
iter = 17762, queue = 25644, heur = -9.0, depth = 9
iter = 17763, queue = 25646, heur = -9.0, depth = 9
iter = 17764, queue = 25649, heur = -9.0, depth = 9
iter = 17765, queue = 25650, heur = -9.0, depth = 9
iter = 17766, queue = 25649, heur = -9.0, depth = 9
iter = 17767, queue = 25650, heur = -9.0, depth = 9
iter = 17768, queue = 25652, heur = -9.0, depth = 9
iter = 17769, queue = 25655, heur = -9.0, depth = 9
iter = 17770, queue = 25654, heur = -9.0, depth = 9
iter = 17771, queue = 25655, heur = -9.0, depth = 9
iter = 17772, queue = 25657, heur = -9.0, depth = 9
iter = 17773, queue = 25658, heur = -9.0, depth = 9
iter = 17774, queue = 25658, heur = -9.0, depth = 9
iter = 17775, queue = 25659, heur = -9.0, depth = 9
iter = 17776, queue = 25660, heur = -9.0, depth = 9
iter = 17777, queue = 25659, heur = -9.0, depth = 9
iter = 17778, queue = 25661, heur = -9.0, depth = 9
iter = 17779, queue = 25662, heur = -9.0, depth = 9
iter = 17780, queue = 25664, heur = -9.0, depth = 9
iter = 17781, queue = 25664, heur = -9.0, depth = 9
iter = 17782, queue = 25665, heur = -9.0, depth = 9
iter = 17783, queue = 25666, heur = -9.0, depth = 9
iter = 17784, queue = 25668, heur = -9.0, depth = 9
iter = 17785, queue = 25667, heur = -9.0, depth = 9
iter = 17786, queue = 25670, heur = -9.0, depth = 9
iter = 17787, queue = 25670, heur = -9.0, depth = 9
iter = 17788, queue = 25672, heur = -9.0, depth = 9
iter = 17789, queue = 25674, heur = -9.0, depth = 9
iter = 17790, queue = 25677, heur = -9.0, depth = 9
iter = 17791, queue = 25677, heur = -9.0, depth = 9
iter = 17792, queue = 25678, heur = -9.0, depth = 9
iter = 17793, queue = 25679, heur = -9.0, depth = 9
iter = 17794, queue = 25681, heur = -9.0, depth = 9
iter = 17795, queue = 25684, heur = -9.0, depth = 9
iter = 17796, queue = 25687, heur = -9.0, depth = 10
iter = 17797, queue = 25688, heur = -9.0, depth = 9
iter = 17798, queue = 25689, heur = -9.0, depth = 10
iter = 17799, queue = 25692, heur = -9.0, depth = 9
iter = 17800, queue = 25695, heur = -9.0, depth = 9
iter = 17801, queue = 25696, heur = -9.0, depth = 9
iter = 17802, queue = 25697, heur = -9.0, depth = 9
iter = 17803, queue = 25699, heur = -9.0, depth = 9
iter = 17804, queue = 25700, heur = -9.0, depth = 9
iter = 17805, queue = 25702, heur = -9.0, depth = 10
iter = 17806, queue = 25703, heur = -9.0, depth = 9
iter = 17807, queue = 25706, heur = -9.0, depth = 9
iter = 17808, queue = 25707, heur = -9.0, depth = 9
iter = 17809, queue = 25707, heur = -9.0, depth = 9
iter = 17810, queue = 25708, heur = -9.0, depth = 9
iter = 17811, queue = 25708, heur = -9.0, depth = 9
iter = 17812, queue = 25710, heur = -9.0, depth = 10
iter = 17813, queue = 25712, heur = -9.0, depth = 10
iter = 17814, queue = 25711, heur = -9.0, depth = 10
iter = 17815, queue = 25712, heur = -9.0, depth = 9
iter = 17816, queue = 25713, heur = -9.0, depth = 9
```

```
iter = 17817, queue = 25715, heur = -9.0, depth = 10
iter = 17818, queue = 25715, heur = -9.0, depth = 9
iter = 17819, queue = 25716, heur = -9.0, depth = 9
iter = 17820, queue = 25718, heur = -9.0, depth = 9
iter = 17821, queue = 25718, heur = -9.0, depth = 9
iter = 17822, queue = 25719, heur = -9.0, depth = 9
iter = 17823, queue = 25719, heur = -9.0, depth = 9
iter = 17824, queue = 25720, heur = -9.0, depth = 9
iter = 17825, queue = 25721, heur = -9.0, depth = 9
iter = 17826, queue = 25720, heur = -9.0, depth = 9
iter = 17827, queue = 25723, heur = -9.0, depth = 9
iter = 17828, queue = 25722, heur = -9.0, depth = 9
iter = 17829, queue = 25723, heur = -9.0, depth = 9
iter = 17830, queue = 25723, heur = -9.0, depth = 9
iter = 17831, queue = 25722, heur = -9.0, depth = 9
iter = 17832, queue = 25723, heur = -9.0, depth = 9
iter = 17833, queue = 25722, heur = -9.0, depth = 9
iter = 17834, queue = 25723, heur = -9.0, depth = 9
iter = 17835, queue = 25724, heur = -9.0, depth = 9
iter = 17836, queue = 25724, heur = -9.0, depth = 9
iter = 17837, queue = 25723, heur = -9.0, depth = 9
iter = 17838, queue = 25724, heur = -9.0, depth = 9
iter = 17839, queue = 25725, heur = -9.0, depth = 9
iter = 17840, queue = 25726, heur = -9.0, depth = 9
iter = 17841, queue = 25726, heur = -9.0, depth = 9
iter = 17842, queue = 25728, heur = -9.0, depth = 9
iter = 17843, queue = 25728, heur = -9.0, depth = 10
iter = 17844, queue = 25730, heur = -9.0, depth = 9
iter = 17845, queue = 25732, heur = -9.0, depth = 9
iter = 17846, queue = 25734, heur = -9.0, depth = 9
iter = 17847, queue = 25733, heur = -9.0, depth = 9
iter = 17848, queue = 25734, heur = -9.0, depth = 10
iter = 17849, queue = 25734, heur = -9.0, depth = 9
iter = 17850, queue = 25733, heur = -9.0, depth = 9
iter = 17851, queue = 25732, heur = -9.0, depth = 9
iter = 17852, queue = 25731, heur = -9.0, depth = 9
iter = 17853, queue = 25734, heur = -9.0, depth = 9
iter = 17854, queue = 25737, heur = -9.0, depth = 9
iter = 17855, queue = 25738, heur = -9.0, depth = 10
iter = 17856, queue = 25741, heur = -9.0, depth = 9
iter = 17857, queue = 25742, heur = -9.0, depth = 9
iter = 17858, queue = 25743, heur = -9.0, depth = 9
iter = 17859, queue = 25744, heur = -9.0, depth = 9
iter = 17860, queue = 25743, heur = -9.0, depth = 9
iter = 17861, queue = 25745, heur = -9.0, depth = 9
iter = 17862, queue = 25746, heur = -9.0, depth = 9
iter = 17863, queue = 25747, heur = -9.0, depth = 9
iter = 17864, queue = 25749, heur = -9.0, depth = 9
iter = 17865, queue = 25750, heur = -9.0, depth = 9
iter = 17866, queue = 25751, heur = -9.0, depth = 9
iter = 17867, queue = 25752, heur = -9.0, depth = 9
iter = 17868, queue = 25753, heur = -9.0, depth = 9
iter = 17869, queue = 25756, heur = -9.0, depth = 9
iter = 17870, queue = 25757, heur = -9.0, depth = 9
iter = 17871, queue = 25756, heur = -9.0, depth = 9
iter = 17872, queue = 25757, heur = -9.0, depth = 9
iter = 17873, queue = 25760, heur = -9.0, depth = 9
iter = 17874, queue = 25761, heur = -9.0, depth = 9
iter = 17875, queue = 25763, heur = -9.0, depth = 9
```

```
iter = 17876, queue = 25765, heur = -9.0, depth = 9
iter = 17877, queue = 25767, heur = -9.0, depth = 9
iter = 17878, queue = 25766, heur = -9.0, depth = 9
iter = 17879, queue = 25768, heur = -9.0, depth = 9
iter = 17880, queue = 25768, heur = -9.0, depth = 9
iter = 17881, queue = 25771, heur = -9.0, depth = 9
iter = 17882, queue = 25772, heur = -9.0, depth = 9
iter = 17883, queue = 25773, heur = -9.0, depth = 9
iter = 17884, queue = 25772, heur = -9.0, depth = 9
iter = 17885, queue = 25771, heur = -9.0, depth = 9
iter = 17886, queue = 25772, heur = -9.0, depth = 9
iter = 17887, queue = 25772, heur = -9.0, depth = 9
iter = 17888, queue = 25773, heur = -9.0, depth = 9
iter = 17889, queue = 25774, heur = -9.0, depth = 9
iter = 17890, queue = 25774, heur = -9.0, depth = 9
iter = 17891, queue = 25773, heur = -9.0, depth = 10
iter = 17892, queue = 25775, heur = -9.0, depth = 10
iter = 17893, queue = 25776, heur = -9.0, depth = 9
iter = 17894, queue = 25775, heur = -9.0, depth = 10
iter = 17895, queue = 25776, heur = -9.0, depth = 10
iter = 17896, queue = 25779, heur = -9.0, depth = 10
iter = 17897, queue = 25780, heur = -9.0, depth = 9
iter = 17898, queue = 25782, heur = -9.0, depth = 10
iter = 17899, queue = 25783, heur = -9.0, depth = 9
iter = 17900, queue = 25785, heur = -9.0, depth = 9
iter = 17901, queue = 25788, heur = -9.0, depth = 9
iter = 17902, queue = 25791, heur = -9.0, depth = 9
iter = 17903, queue = 25794, heur = -9.0, depth = 9
iter = 17904, queue = 25795, heur = -9.0, depth = 9
iter = 17905, queue = 25798, heur = -9.0, depth = 9
iter = 17906, queue = 25800, heur = -9.0, depth = 9
iter = 17907, queue = 25801, heur = -9.0, depth = 10
iter = 17908, queue = 25802, heur = -9.0, depth = 10
iter = 17909, queue = 25803, heur = -9.0, depth = 10
iter = 17910, queue = 25806, heur = -9.0, depth = 9
iter = 17911, queue = 25806, heur = -9.0, depth = 9
iter = 17912, queue = 25805, heur = -9.0, depth = 10
iter = 17913, queue = 25807, heur = -9.0, depth = 9
iter = 17914, queue = 25808, heur = -9.0, depth = 10
iter = 17915, queue = 25809, heur = -9.0, depth = 9
iter = 17916, queue = 25810, heur = -9.0, depth = 10
iter = 17917, queue = 25813, heur = -9.0, depth = 9
iter = 17918, queue = 25814, heur = -9.0, depth = 9
iter = 17919, queue = 25815, heur = -9.0, depth = 9
iter = 17920, queue = 25816, heur = -9.0, depth = 9
iter = 17921, queue = 25816, heur = -9.0, depth = 9
iter = 17922, queue = 25817, heur = -9.0, depth = 9
iter = 17923, queue = 25818, heur = -9.0, depth = 9
iter = 17924, queue = 25818, heur = -9.0, depth = 9
iter = 17925, queue = 25820, heur = -9.0, depth = 9
iter = 17926, queue = 25819, heur = -9.0, depth = 9
iter = 17927, queue = 25821, heur = -9.0, depth = 9
iter = 17928, queue = 25822, heur = -9.0, depth = 9
iter = 17929, queue = 25823, heur = -9.0, depth = 9
iter = 17930, queue = 25825, heur = -9.0, depth = 9
iter = 17931, queue = 25826, heur = -9.0, depth = 9
iter = 17932, queue = 25827, heur = -9.0, depth = 9
iter = 17933, queue = 25828, heur = -9.0, depth = 9
iter = 17934, queue = 25829, heur = -9.0, depth = 9
```

```
iter = 17935, queue = 25831, heur = -9.0, depth = 9
iter = 17936, queue = 25832, heur = -9.0, depth = 9
iter = 17937, queue = 25832, heur = -9.0, depth = 9
iter = 17938, queue = 25833, heur = -9.0, depth = 9
iter = 17939, queue = 25834, heur = -9.0, depth = 9
iter = 17940, queue = 25835, heur = -9.0, depth = 9
iter = 17941, queue = 25836, heur = -9.0, depth = 9
iter = 17942, queue = 25839, heur = -9.0, depth = 9
iter = 17943, queue = 25842, heur = -9.0, depth = 9
iter = 17944, queue = 25843, heur = -9.0, depth = 9
iter = 17945, queue = 25844, heur = -9.0, depth = 9
iter = 17946, queue = 25844, heur = -9.0, depth = 9
iter = 17947, queue = 25846, heur = -9.0, depth = 9
iter = 17948, queue = 25847, heur = -9.0, depth = 9
iter = 17949, queue = 25846, heur = -9.0, depth = 9
iter = 17950, queue = 25847, heur = -9.0, depth = 9
iter = 17951, queue = 25848, heur = -9.0, depth = 9
iter = 17952, queue = 25849, heur = -9.0, depth = 9
iter = 17953, queue = 25850, heur = -9.0, depth = 9
iter = 17954, queue = 25849, heur = -9.0, depth = 9
iter = 17955, queue = 25850, heur = -9.0, depth = 9
iter = 17956, queue = 25851, heur = -9.0, depth = 9
iter = 17957, queue = 25851, heur = -9.0, depth = 9
iter = 17958, queue = 25854, heur = -9.0, depth = 9
iter = 17959, queue = 25855, heur = -9.0, depth = 9
iter = 17960, queue = 25856, heur = -9.0, depth = 9
iter = 17961, queue = 25857, heur = -9.0, depth = 10
iter = 17962, queue = 25858, heur = -9.0, depth = 10
iter = 17963, queue = 25860, heur = -9.0, depth = 9
iter = 17964, queue = 25861, heur = -9.0, depth = 9
iter = 17965, queue = 25864, heur = -9.0, depth = 9
iter = 17966, queue = 25865, heur = -9.0, depth = 9
iter = 17967, queue = 25867, heur = -9.0, depth = 9
iter = 17968, queue = 25870, heur = -9.0, depth = 9
iter = 17969, queue = 25871, heur = -9.0, depth = 9
iter = 17970, queue = 25874, heur = -9.0, depth = 9
iter = 17971, queue = 25875, heur = -9.0, depth = 9
iter = 17972, queue = 25878, heur = -9.0, depth = 9
iter = 17973, queue = 25881, heur = -9.0, depth = 9
iter = 17974, queue = 25884, heur = -9.0, depth = 9
iter = 17975, queue = 25887, heur = -9.0, depth = 9
iter = 17976, queue = 25890, heur = -9.0, depth = 9
iter = 17977, queue = 25892, heur = -9.0, depth = 9
iter = 17978, queue = 25893, heur = -9.0, depth = 9
iter = 17979, queue = 25892, heur = -9.0, depth = 9
iter = 17980, queue = 25893, heur = -9.0, depth = 9
iter = 17981, queue = 25894, heur = -9.0, depth = 9
iter = 17982, queue = 25897, heur = -9.0, depth = 9
iter = 17983, queue = 25899, heur = -9.0, depth = 9
iter = 17984, queue = 25898, heur = -9.0, depth = 10
iter = 17985, queue = 25900, heur = -9.0, depth = 12
iter = 17986, queue = 25899, heur = -9.0, depth = 11
iter = 17987, queue = 25900, heur = -9.0, depth = 10
iter = 17988, queue = 25901, heur = -9.0, depth = 9
iter = 17989, queue = 25902, heur = -9.0, depth = 9
iter = 17990, queue = 25903, heur = -9.0, depth = 9
iter = 17991, queue = 25904, heur = -9.0, depth = 9
iter = 17992, queue = 25903, heur = -9.0, depth = 9
iter = 17993, queue = 25904, heur = -9.0, depth = 9
```

```
iter = 17994, queue = 25905, heur = -9.0, depth = 9
iter = 17995, queue = 25906, heur = -9.0, depth = 9
iter = 17996, queue = 25908, heur = -9.0, depth = 9
iter = 17997, queue = 25911, heur = -9.0, depth = 9
iter = 17998, queue = 25911, heur = -9.0, depth = 9
iter = 17999, queue = 25913, heur = -9.0, depth = 9
iter = 18000, queue = 25913, heur = -9.0, depth = 10
iter = 18001, queue = 25916, heur = -9.0, depth = 9
iter = 18002, queue = 25915, heur = -9.0, depth = 9
iter = 18003, queue = 25918, heur = -9.0, depth = 9
iter = 18004, queue = 25919, heur = -9.0, depth = 10
iter = 18005, queue = 25920, heur = -9.0, depth = 9
iter = 18006, queue = 25921, heur = -9.0, depth = 9
iter = 18007, queue = 25922, heur = -9.0, depth = 9
iter = 18008, queue = 25925, heur = -9.0, depth = 9
iter = 18009, queue = 25925, heur = -9.0, depth = 10
iter = 18010, queue = 25928, heur = -9.0, depth = 9
iter = 18011, queue = 25931, heur = -9.0, depth = 9
iter = 18012, queue = 25934, heur = -9.0, depth = 9
iter = 18013, queue = 25934, heur = -9.0, depth = 9
iter = 18014, queue = 25933, heur = -9.0, depth = 9
iter = 18015, queue = 25934, heur = -9.0, depth = 9
iter = 18016, queue = 25933, heur = -9.0, depth = 9
iter = 18017, queue = 25933, heur = -9.0, depth = 9
iter = 18018, queue = 25936, heur = -9.0, depth = 9
iter = 18019, queue = 25937, heur = -9.0, depth = 9
iter = 18020, queue = 25936, heur = -9.0, depth = 9
iter = 18021, queue = 25939, heur = -9.0, depth = 9
iter = 18022, queue = 25942, heur = -9.0, depth = 9
iter = 18023, queue = 25943, heur = -9.0, depth = 9
iter = 18024, queue = 25943, heur = -9.0, depth = 9
iter = 18025, queue = 25946, heur = -9.0, depth = 9
iter = 18026, queue = 25946, heur = -9.0, depth = 9
iter = 18027, queue = 25949, heur = -9.0, depth = 9
iter = 18028, queue = 25950, heur = -9.0, depth = 9
iter = 18029, queue = 25949, heur = -9.0, depth = 10
iter = 18030, queue = 25950, heur = -9.0, depth = 10
iter = 18031, queue = 25951, heur = -9.0, depth = 9
iter = 18032, queue = 25952, heur = -9.0, depth = 9
iter = 18033, queue = 25955, heur = -9.0, depth = 10
iter = 18034, queue = 25958, heur = -9.0, depth = 9
iter = 18035, queue = 25959, heur = -9.0, depth = 9
iter = 18036, queue = 25960, heur = -9.0, depth = 9
iter = 18037, queue = 25959, heur = -9.0, depth = 9
iter = 18038, queue = 25959, heur = -9.0, depth = 9
iter = 18039, queue = 25959, heur = -9.0, depth = 9
iter = 18040, queue = 25962, heur = -9.0, depth = 9
iter = 18041, queue = 25963, heur = -9.0, depth = 9
iter = 18042, queue = 25965, heur = -9.0, depth = 9
iter = 18043, queue = 25966, heur = -9.0, depth = 9
iter = 18044, queue = 25967, heur = -9.0, depth = 9
iter = 18045, queue = 25968, heur = -9.0, depth = 9
iter = 18046, queue = 25969, heur = -9.0, depth = 9
iter = 18047, queue = 25970, heur = -9.0, depth = 9
iter = 18048, queue = 25971, heur = -9.0, depth = 9
iter = 18049, queue = 25972, heur = -9.0, depth = 9
iter = 18050, queue = 25973, heur = -9.0, depth = 9
iter = 18051, queue = 25974, heur = -9.0, depth = 9
iter = 18052, queue = 25973, heur = -9.0, depth = 9
```

```
iter = 18053, queue = 25974, heur = -9.0, depth = 9
iter = 18054, queue = 25975, heur = -9.0, depth = 9
iter = 18055, queue = 25976, heur = -9.0, depth = 9
iter = 18056, queue = 25979, heur = -9.0, depth = 9
iter = 18057, queue = 25978, heur = -9.0, depth = 9
iter = 18058, queue = 25979, heur = -9.0, depth = 9
iter = 18059, queue = 25982, heur = -9.0, depth = 9
iter = 18060, queue = 25984, heur = -9.0, depth = 9
iter = 18061, queue = 25985, heur = -9.0, depth = 9
iter = 18062, queue = 25988, heur = -9.0, depth = 9
iter = 18063, queue = 25989, heur = -9.0, depth = 9
iter = 18064, queue = 25991, heur = -9.0, depth = 9
iter = 18065, queue = 25993, heur = -9.0, depth = 9
iter = 18066, queue = 25994, heur = -9.0, depth = 9
iter = 18067, queue = 25997, heur = -9.0, depth = 9
iter = 18068, queue = 25998, heur = -9.0, depth = 9
iter = 18069, queue = 26000, heur = -9.0, depth = 9
iter = 18070, queue = 26003, heur = -9.0, depth = 9
iter = 18071, queue = 26006, heur = -9.0, depth = 9
iter = 18072, queue = 26006, heur = -9.0, depth = 9
iter = 18073, queue = 26009, heur = -9.0, depth = 9
iter = 18074, queue = 26010, heur = -9.0, depth = 9
iter = 18075, queue = 26011, heur = -9.0, depth = 9
iter = 18076, queue = 26010, heur = -9.0, depth = 9
iter = 18077, queue = 26011, heur = -9.0, depth = 9
iter = 18078, queue = 26012, heur = -9.0, depth = 9
iter = 18079, queue = 26012, heur = -9.0, depth = 9
iter = 18080, queue = 26011, heur = -9.0, depth = 9
iter = 18081, queue = 26012, heur = -9.0, depth = 9
iter = 18082, queue = 26013, heur = -9.0, depth = 9
iter = 18083, queue = 26014, heur = -9.0, depth = 9
iter = 18084, queue = 26017, heur = -9.0, depth = 9
iter = 18085, queue = 26018, heur = -9.0, depth = 9
iter = 18086, queue = 26021, heur = -9.0, depth = 9
iter = 18087, queue = 26023, heur = -9.0, depth = 9
iter = 18088, queue = 26025, heur = -9.0, depth = 9
iter = 18089, queue = 26027, heur = -9.0, depth = 9
iter = 18090, queue = 26028, heur = -9.0, depth = 11
iter = 18091, queue = 26030, heur = -9.0, depth = 9
iter = 18092, queue = 26033, heur = -9.0, depth = 9
iter = 18093, queue = 26034, heur = -9.0, depth = 9
iter = 18094, queue = 26035, heur = -9.0, depth = 9
iter = 18095, queue = 26036, heur = -9.0, depth = 9
iter = 18096, queue = 26039, heur = -9.0, depth = 9
iter = 18097, queue = 26038, heur = -9.0, depth = 9
iter = 18098, queue = 26039, heur = -9.0, depth = 9
iter = 18099, queue = 26042, heur = -9.0, depth = 9
iter = 18100, queue = 26045, heur = -9.0, depth = 9
iter = 18101, queue = 26047, heur = -9.0, depth = 9
iter = 18102, queue = 26048, heur = -9.0, depth = 9
iter = 18103, queue = 26048, heur = -9.0, depth = 9
iter = 18104, queue = 26049, heur = -9.0, depth = 9
iter = 18105, queue = 26050, heur = -9.0, depth = 9
iter = 18106, queue = 26053, heur = -9.0, depth = 9
iter = 18107, queue = 26056, heur = -9.0, depth = 9
iter = 18108, queue = 26057, heur = -9.0, depth = 9
iter = 18109, queue = 26058, heur = -9.0, depth = 10
iter = 18110, queue = 26058, heur = -9.0, depth = 9
iter = 18111, queue = 26059, heur = -9.0, depth = 9
```

```
iter = 18112, queue = 26059, heur = -9.0, depth = 9
iter = 18113, queue = 26062, heur = -9.0, depth = 9
iter = 18114, queue = 26062, heur = -9.0, depth = 9
iter = 18115, queue = 26064, heur = -9.0, depth = 9
iter = 18116, queue = 26065, heur = -9.0, depth = 9
iter = 18117, queue = 26068, heur = -9.0, depth = 9
iter = 18118, queue = 26071, heur = -9.0, depth = 9
iter = 18119, queue = 26073, heur = -9.0, depth = 9
iter = 18120, queue = 26075, heur = -9.0, depth = 9
iter = 18121, queue = 26076, heur = -9.0, depth = 9
iter = 18122, queue = 26076, heur = -9.0, depth = 9
iter = 18123, queue = 26077, heur = -9.0, depth = 9
iter = 18124, queue = 26078, heur = -9.0, depth = 9
iter = 18125, queue = 26080, heur = -9.0, depth = 9
iter = 18126, queue = 26082, heur = -9.0, depth = 9
iter = 18127, queue = 26083, heur = -9.0, depth = 9
iter = 18128, queue = 26086, heur = -9.0, depth = 9
iter = 18129, queue = 26089, heur = -9.0, depth = 9
iter = 18130, queue = 26091, heur = -9.0, depth = 9
iter = 18131, queue = 26092, heur = -9.0, depth = 9
iter = 18132, queue = 26094, heur = -9.0, depth = 9
iter = 18133, queue = 26095, heur = -9.0, depth = 9
iter = 18134, queue = 26096, heur = -9.0, depth = 9
iter = 18135, queue = 26097, heur = -9.0, depth = 9
iter = 18136, queue = 26098, heur = -9.0, depth = 9
iter = 18137, queue = 26099, heur = -9.0, depth = 9
iter = 18138, queue = 26102, heur = -9.0, depth = 9
iter = 18139, queue = 26102, heur = -9.0, depth = 9
iter = 18140, queue = 26103, heur = -9.0, depth = 11
iter = 18141, queue = 26104, heur = -9.0, depth = 9
iter = 18142, queue = 26104, heur = -9.0, depth = 11
iter = 18143, queue = 26105, heur = -9.0, depth = 11
iter = 18144, queue = 26106, heur = -9.0, depth = 9
iter = 18145, queue = 26107, heur = -9.0, depth = 9
iter = 18146, queue = 26108, heur = -9.0, depth = 11
iter = 18147, queue = 26109, heur = -9.0, depth = 11
iter = 18148, queue = 26112, heur = -9.0, depth = 9
iter = 18149, queue = 26113, heur = -9.0, depth = 11
iter = 18150, queue = 26113, heur = -9.0, depth = 11
iter = 18151, queue = 26116, heur = -9.0, depth = 9
iter = 18152, queue = 26119, heur = -9.0, depth = 9
iter = 18153, queue = 26118, heur = -9.0, depth = 9
iter = 18154, queue = 26119, heur = -9.0, depth = 9
iter = 18155, queue = 26118, heur = -9.0, depth = 9
iter = 18156, queue = 26120, heur = -9.0, depth = 9
iter = 18157, queue = 26123, heur = -9.0, depth = 9
iter = 18158, queue = 26126, heur = -9.0, depth = 9
iter = 18159, queue = 26128, heur = -9.0, depth = 9
iter = 18160, queue = 26128, heur = -9.0, depth = 9
iter = 18161, queue = 26129, heur = -9.0, depth = 9
iter = 18162, queue = 26130, heur = -9.0, depth = 9
iter = 18163, queue = 26133, heur = -9.0, depth = 9
iter = 18164, queue = 26135, heur = -9.0, depth = 9
iter = 18165, queue = 26136, heur = -9.0, depth = 11
iter = 18166, queue = 26137, heur = -9.0, depth = 9
iter = 18167, queue = 26136, heur = -9.0, depth = 9
iter = 18168, queue = 26138, heur = -9.0, depth = 9
iter = 18169, queue = 26137, heur = -9.0, depth = 9
iter = 18170, queue = 26138, heur = -9.0, depth = 9
```

```
iter = 18171, queue = 26139, heur = -9.0, depth = 9
iter = 18172, queue = 26140, heur = -9.0, depth = 10
iter = 18173, queue = 26141, heur = -9.0, depth = 9
iter = 18174, queue = 26142, heur = -9.0, depth = 9
iter = 18175, queue = 26144, heur = -9.0, depth = 9
iter = 18176, queue = 26145, heur = -9.0, depth = 9
iter = 18177, queue = 26146, heur = -9.0, depth = 9
iter = 18178, queue = 26149, heur = -9.0, depth = 9
iter = 18179, queue = 26148, heur = -9.0, depth = 9
iter = 18180, queue = 26151, heur = -9.0, depth = 9
iter = 18181, queue = 26152, heur = -9.0, depth = 9
iter = 18182, queue = 26153, heur = -9.0, depth = 9
iter = 18183, queue = 26154, heur = -9.0, depth = 9
iter = 18184, queue = 26153, heur = -9.0, depth = 9
iter = 18185, queue = 26156, heur = -9.0, depth = 9
iter = 18186, queue = 26159, heur = -9.0, depth = 9
iter = 18187, queue = 26162, heur = -9.0, depth = 9
iter = 18188, queue = 26162, heur = -9.0, depth = 9
iter = 18189, queue = 26163, heur = -9.0, depth = 9
iter = 18190, queue = 26164, heur = -9.0, depth = 9
iter = 18191, queue = 26166, heur = -9.0, depth = 9
iter = 18192, queue = 26165, heur = -9.0, depth = 9
iter = 18193, queue = 26168, heur = -9.0, depth = 9
iter = 18194, queue = 26171, heur = -9.0, depth = 9
iter = 18195, queue = 26174, heur = -9.0, depth = 9
iter = 18196, queue = 26177, heur = -9.0, depth = 9
iter = 18197, queue = 26178, heur = -9.0, depth = 9
iter = 18198, queue = 26178, heur = -9.0, depth = 9
iter = 18199, queue = 26178, heur = -9.0, depth = 9
iter = 18200, queue = 26179, heur = -9.0, depth = 9
iter = 18201, queue = 26180, heur = -9.0, depth = 9
iter = 18202, queue = 26182, heur = -9.0, depth = 9
iter = 18203, queue = 26184, heur = -9.0, depth = 9
iter = 18204, queue = 26186, heur = -9.0, depth = 9
iter = 18205, queue = 26187, heur = -9.0, depth = 9
iter = 18206, queue = 26186, heur = -9.0, depth = 9
iter = 18207, queue = 26189, heur = -9.0, depth = 9
iter = 18208, queue = 26192, heur = -9.0, depth = 9
iter = 18209, queue = 26191, heur = -9.0, depth = 10
iter = 18210, queue = 26194, heur = -9.0, depth = 9
iter = 18211, queue = 26195, heur = -9.0, depth = 9
iter = 18212, queue = 26194, heur = -9.0, depth = 9
iter = 18213, queue = 26197, heur = -9.0, depth = 9
iter = 18214, queue = 26198, heur = -9.0, depth = 9
iter = 18215, queue = 26199, heur = -9.0, depth = 9
iter = 18216, queue = 26198, heur = -9.0, depth = 9
iter = 18217, queue = 26199, heur = -9.0, depth = 9
iter = 18218, queue = 26201, heur = -9.0, depth = 9
iter = 18219, queue = 26204, heur = -9.0, depth = 11
iter = 18220, queue = 26205, heur = -9.0, depth = 9
iter = 18221, queue = 26206, heur = -9.0, depth = 9
iter = 18222, queue = 26208, heur = -9.0, depth = 11
iter = 18223, queue = 26210, heur = -9.0, depth = 9
iter = 18224, queue = 26210, heur = -9.0, depth = 9
iter = 18225, queue = 26211, heur = -9.0, depth = 10
iter = 18226, queue = 26214, heur = -9.0, depth = 9
iter = 18227, queue = 26213, heur = -9.0, depth = 9
iter = 18228, queue = 26216, heur = -9.0, depth = 9
iter = 18229, queue = 26217, heur = -9.0, depth = 9
```

```
iter = 18230, queue = 26220, heur = -9.0, depth = 9
iter = 18231, queue = 26221, heur = -9.0, depth = 10
iter = 18232, queue = 26222, heur = -9.0, depth = 9
iter = 18233, queue = 26225, heur = -9.0, depth = 9
iter = 18234, queue = 26227, heur = -9.0, depth = 9
iter = 18235, queue = 26228, heur = -9.0, depth = 9
iter = 18236, queue = 26229, heur = -9.0, depth = 9
iter = 18237, queue = 26231, heur = -9.0, depth = 9
iter = 18238, queue = 26234, heur = -9.0, depth = 9
iter = 18239, queue = 26236, heur = -9.0, depth = 9
iter = 18240, queue = 26237, heur = -9.0, depth = 9
iter = 18241, queue = 26236, heur = -9.0, depth = 9
iter = 18242, queue = 26237, heur = -9.0, depth = 9
iter = 18243, queue = 26240, heur = -9.0, depth = 9
iter = 18244, queue = 26241, heur = -9.0, depth = 9
iter = 18245, queue = 26243, heur = -9.0, depth = 9
iter = 18246, queue = 26246, heur = -9.0, depth = 9
iter = 18247, queue = 26247, heur = -9.0, depth = 9
iter = 18248, queue = 26246, heur = -9.0, depth = 9
iter = 18249, queue = 26247, heur = -9.0, depth = 9
iter = 18250, queue = 26249, heur = -9.0, depth = 9
iter = 18251, queue = 26250, heur = -9.0, depth = 9
iter = 18252, queue = 26253, heur = -9.0, depth = 9
iter = 18253, queue = 26254, heur = -9.0, depth = 9
iter = 18254, queue = 26257, heur = -9.0, depth = 9
iter = 18255, queue = 26260, heur = -9.0, depth = 9
iter = 18256, queue = 26260, heur = -9.0, depth = 9
iter = 18257, queue = 26261, heur = -9.0, depth = 9
iter = 18258, queue = 26262, heur = -9.0, depth = 9
iter = 18259, queue = 26263, heur = -9.0, depth = 9
iter = 18260, queue = 26265, heur = -9.0, depth = 9
iter = 18261, queue = 26265, heur = -9.0, depth = 9
iter = 18262, queue = 26265, heur = -9.0, depth = 9
iter = 18263, queue = 26268, heur = -9.0, depth = 9
iter = 18264, queue = 26269, heur = -9.0, depth = 9
iter = 18265, queue = 26270, heur = -9.0, depth = 9
iter = 18266, queue = 26273, heur = -9.0, depth = 9
iter = 18267, queue = 26274, heur = -9.0, depth = 9
iter = 18268, queue = 26273, heur = -9.0, depth = 9
iter = 18269, queue = 26276, heur = -9.0, depth = 9
iter = 18270, queue = 26278, heur = -9.0, depth = 9
iter = 18271, queue = 26280, heur = -9.0, depth = 9
iter = 18272, queue = 26280, heur = -9.0, depth = 9
iter = 18273, queue = 26281, heur = -9.0, depth = 9
iter = 18274, queue = 26282, heur = -9.0, depth = 9
iter = 18275, queue = 26283, heur = -9.0, depth = 9
iter = 18276, queue = 26286, heur = -9.0, depth = 9
iter = 18277, queue = 26288, heur = -9.0, depth = 9
iter = 18278, queue = 26291, heur = -9.0, depth = 9
iter = 18279, queue = 26290, heur = -9.0, depth = 9
iter = 18280, queue = 26291, heur = -9.0, depth = 9
iter = 18281, queue = 26293, heur = -9.0, depth = 9
iter = 18282, queue = 26295, heur = -9.0, depth = 9
iter = 18283, queue = 26296, heur = -9.0, depth = 9
iter = 18284, queue = 26296, heur = -9.0, depth = 9
iter = 18285, queue = 26297, heur = -9.0, depth = 9
iter = 18286, queue = 26300, heur = -9.0, depth = 9
iter = 18287, queue = 26303, heur = -9.0, depth = 10
iter = 18288, queue = 26305, heur = -9.0, depth = 10
```

```
iter = 18289, queue = 26308, heur = -9.0, depth = 10
iter = 18290, queue = 26309, heur = -9.0, depth = 9
iter = 18291, queue = 26311, heur = -9.0, depth = 9
iter = 18292, queue = 26312, heur = -9.0, depth = 10
iter = 18293, queue = 26313, heur = -9.0, depth = 9
iter = 18294, queue = 26312, heur = -9.0, depth = 9
iter = 18295, queue = 26313, heur = -9.0, depth = 10
iter = 18296, queue = 26314, heur = -9.0, depth = 10
iter = 18297, queue = 26315, heur = -9.0, depth = 9
iter = 18298, queue = 26315, heur = -9.0, depth = 9
iter = 18299, queue = 26318, heur = -9.0, depth = 9
iter = 18300, queue = 26318, heur = -9.0, depth = 9
iter = 18301, queue = 26320, heur = -9.0, depth = 9
iter = 18302, queue = 26319, heur = -9.0, depth = 13
iter = 18303, queue = 26321, heur = -9.0, depth = 9
iter = 18304, queue = 26323, heur = -9.0, depth = 9
iter = 18305, queue = 26322, heur = -9.0, depth = 13
iter = 18306, queue = 26323, heur = -9.0, depth = 13
iter = 18307, queue = 26324, heur = -9.0, depth = 9
iter = 18308, queue = 26326, heur = -9.0, depth = 9
iter = 18309, queue = 26329, heur = -9.0, depth = 9
iter = 18310, queue = 26331, heur = -9.0, depth = 9
iter = 18311, queue = 26332, heur = -9.0, depth = 9
iter = 18312, queue = 26331, heur = -9.0, depth = 9
iter = 18313, queue = 26332, heur = -9.0, depth = 9
iter = 18314, queue = 26334, heur = -9.0, depth = 9
iter = 18315, queue = 26335, heur = -9.0, depth = 12
iter = 18316, queue = 26337, heur = -9.0, depth = 12
iter = 18317, queue = 26340, heur = -9.0, depth = 9
iter = 18318, queue = 26341, heur = -9.0, depth = 10
iter = 18319, queue = 26342, heur = -9.0, depth = 9
iter = 18320, queue = 26343, heur = -9.0, depth = 9
iter = 18321, queue = 26344, heur = -9.0, depth = 9
iter = 18322, queue = 26347, heur = -9.0, depth = 11
iter = 18323, queue = 26350, heur = -9.0, depth = 11
iter = 18324, queue = 26351, heur = -9.0, depth = 9
iter = 18325, queue = 26353, heur = -9.0, depth = 11
iter = 18326, queue = 26354, heur = -9.0, depth = 9
iter = 18327, queue = 26353, heur = -9.0, depth = 10
iter = 18328, queue = 26355, heur = -9.0, depth = 9
iter = 18329, queue = 26354, heur = -9.0, depth = 9
iter = 18330, queue = 26355, heur = -9.0, depth = 9
iter = 18331, queue = 26356, heur = -9.0, depth = 11
iter = 18332, queue = 26359, heur = -9.0, depth = 9
iter = 18333, queue = 26360, heur = -9.0, depth = 11
iter = 18334, queue = 26363, heur = -9.0, depth = 11
iter = 18335, queue = 26364, heur = -9.0, depth = 9
iter = 18336, queue = 26367, heur = -9.0, depth = 9
iter = 18337, queue = 26368, heur = -9.0, depth = 9
iter = 18338, queue = 26369, heur = -9.0, depth = 11
iter = 18339, queue = 26371, heur = -9.0, depth = 11
iter = 18340, queue = 26374, heur = -9.0, depth = 9
iter = 18341, queue = 26374, heur = -9.0, depth = 10
iter = 18342, queue = 26377, heur = -9.0, depth = 9
iter = 18343, queue = 26380, heur = -9.0, depth = 9
iter = 18344, queue = 26382, heur = -9.0, depth = 11
iter = 18345, queue = 26385, heur = -9.0, depth = 9
iter = 18346, queue = 26384, heur = -9.0, depth = 9
iter = 18347, queue = 26384, heur = -9.0, depth = 10
```

```
iter = 18348, queue = 26387, heur = -9.0, depth = 10
iter = 18349, queue = 26390, heur = -9.0, depth = 9
iter = 18350, queue = 26391, heur = -9.0, depth = 9
iter = 18351, queue = 26392, heur = -9.0, depth = 9
iter = 18352, queue = 26393, heur = -9.0, depth = 9
iter = 18353, queue = 26394, heur = -9.0, depth = 9
iter = 18354, queue = 26395, heur = -9.0, depth = 9
iter = 18355, queue = 26397, heur = -9.0, depth = 9
iter = 18356, queue = 26400, heur = -9.0, depth = 10
iter = 18357, queue = 26403, heur = -9.0, depth = 10
iter = 18358, queue = 26404, heur = -9.0, depth = 10
iter = 18359, queue = 26405, heur = -9.0, depth = 10
iter = 18360, queue = 26406, heur = -9.0, depth = 9
iter = 18361, queue = 26407, heur = -9.0, depth = 9
iter = 18362, queue = 26410, heur = -9.0, depth = 9
iter = 18363, queue = 26411, heur = -9.0, depth = 9
iter = 18364, queue = 26412, heur = -9.0, depth = 9
iter = 18365, queue = 26415, heur = -9.0, depth = 9
iter = 18366, queue = 26416, heur = -9.0, depth = 9
iter = 18367, queue = 26415, heur = -9.0, depth = 9
iter = 18368, queue = 26416, heur = -9.0, depth = 9
iter = 18369, queue = 26419, heur = -9.0, depth = 9
iter = 18370, queue = 26422, heur = -9.0, depth = 9
iter = 18371, queue = 26421, heur = -9.0, depth = 9
iter = 18372, queue = 26424, heur = -9.0, depth = 9
iter = 18373, queue = 26427, heur = -9.0, depth = 10
iter = 18374, queue = 26428, heur = -9.0, depth = 9
iter = 18375, queue = 26428, heur = -9.0, depth = 10
iter = 18376, queue = 26429, heur = -9.0, depth = 9
iter = 18377, queue = 26430, heur = -9.0, depth = 9
iter = 18378, queue = 26430, heur = -9.0, depth = 9
iter = 18379, queue = 26431, heur = -9.0, depth = 9
iter = 18380, queue = 26434, heur = -9.0, depth = 9
iter = 18381, queue = 26435, heur = -9.0, depth = 9
iter = 18382, queue = 26436, heur = -9.0, depth = 10
iter = 18383, queue = 26438, heur = -9.0, depth = 9
iter = 18384, queue = 26439, heur = -9.0, depth = 9
iter = 18385, queue = 26438, heur = -9.0, depth = 10
iter = 18386, queue = 26441, heur = -9.0, depth = 9
iter = 18387, queue = 26442, heur = -9.0, depth = 9
iter = 18388, queue = 26444, heur = -9.0, depth = 9
iter = 18389, queue = 26444, heur = -9.0, depth = 9
iter = 18390, queue = 26445, heur = -9.0, depth = 9
iter = 18391, queue = 26446, heur = -9.0, depth = 9
iter = 18392, queue = 26447, heur = -9.0, depth = 9
iter = 18393, queue = 26448, heur = -9.0, depth = 9
iter = 18394, queue = 26451, heur = -9.0, depth = 9
iter = 18395, queue = 26452, heur = -9.0, depth = 9
iter = 18396, queue = 26453, heur = -9.0, depth = 9
iter = 18397, queue = 26456, heur = -9.0, depth = 9
iter = 18398, queue = 26457, heur = -9.0, depth = 9
iter = 18399, queue = 26459, heur = -9.0, depth = 9
iter = 18400, queue = 26460, heur = -9.0, depth = 9
iter = 18401, queue = 26459, heur = -9.0, depth = 9
iter = 18402, queue = 26460, heur = -9.0, depth = 9
iter = 18403, queue = 26461, heur = -9.0, depth = 10
iter = 18404, queue = 26462, heur = -9.0, depth = 9
iter = 18405, queue = 26463, heur = -9.0, depth = 9
iter = 18406, queue = 26464, heur = -9.0, depth = 9
```

```
iter = 18407, queue = 26465, heur = -9.0, depth = 9
iter = 18408, queue = 26467, heur = -9.0, depth = 9
iter = 18409, queue = 26467, heur = -9.0, depth = 9
iter = 18410, queue = 26469, heur = -9.0, depth = 9
iter = 18411, queue = 26471, heur = -9.0, depth = 9
iter = 18412, queue = 26472, heur = -9.0, depth = 9
iter = 18413, queue = 26473, heur = -9.0, depth = 9
iter = 18414, queue = 26476, heur = -9.0, depth = 9
iter = 18415, queue = 26479, heur = -9.0, depth = 9
iter = 18416, queue = 26480, heur = -9.0, depth = 9
iter = 18417, queue = 26480, heur = -9.0, depth = 9
iter = 18418, queue = 26481, heur = -9.0, depth = 9
iter = 18419, queue = 26483, heur = -9.0, depth = 10
iter = 18420, queue = 26485, heur = -9.0, depth = 9
iter = 18421, queue = 26486, heur = -9.0, depth = 9
iter = 18422, queue = 26489, heur = -9.0, depth = 9
iter = 18423, queue = 26488, heur = -9.0, depth = 10
iter = 18424, queue = 26489, heur = -9.0, depth = 9
iter = 18425, queue = 26490, heur = -9.0, depth = 9
iter = 18426, queue = 26493, heur = -9.0, depth = 9
iter = 18427, queue = 26494, heur = -9.0, depth = 9
iter = 18428, queue = 26495, heur = -9.0, depth = 9
iter = 18429, queue = 26496, heur = -9.0, depth = 9
iter = 18430, queue = 26497, heur = -9.0, depth = 10
iter = 18431, queue = 26497, heur = -9.0, depth = 9
iter = 18432, queue = 26498, heur = -9.0, depth = 10
iter = 18433, queue = 26500, heur = -9.0, depth = 9
iter = 18434, queue = 26501, heur = -9.0, depth = 9
iter = 18435, queue = 26503, heur = -9.0, depth = 9
iter = 18436, queue = 26504, heur = -9.0, depth = 9
iter = 18437, queue = 26504, heur = -9.0, depth = 9
iter = 18438, queue = 26506, heur = -9.0, depth = 9
iter = 18439, queue = 26505, heur = -9.0, depth = 9
iter = 18440, queue = 26506, heur = -9.0, depth = 9
iter = 18441, queue = 26507, heur = -9.0, depth = 9
iter = 18442, queue = 26508, heur = -9.0, depth = 9
iter = 18443, queue = 26509, heur = -9.0, depth = 10
iter = 18444, queue = 26510, heur = -9.0, depth = 9
iter = 18445, queue = 26511, heur = -9.0, depth = 9
iter = 18446, queue = 26512, heur = -9.0, depth = 10
iter = 18447, queue = 26513, heur = -9.0, depth = 9
iter = 18448, queue = 26514, heur = -9.0, depth = 9
iter = 18449, queue = 26517, heur = -9.0, depth = 9
iter = 18450, queue = 26517, heur = -9.0, depth = 9
iter = 18451, queue = 26518, heur = -9.0, depth = 9
iter = 18452, queue = 26519, heur = -9.0, depth = 9
iter = 18453, queue = 26518, heur = -9.0, depth = 9
iter = 18454, queue = 26517, heur = -9.0, depth = 9
iter = 18455, queue = 26519, heur = -9.0, depth = 9
iter = 18456, queue = 26522, heur = -9.0, depth = 9
iter = 18457, queue = 26525, heur = -9.0, depth = 9
iter = 18458, queue = 26527, heur = -9.0, depth = 9
iter = 18459, queue = 26526, heur = -9.0, depth = 9
iter = 18460, queue = 26529, heur = -9.0, depth = 9
iter = 18461, queue = 26531, heur = -9.0, depth = 9
iter = 18462, queue = 26533, heur = -9.0, depth = 9
iter = 18463, queue = 26534, heur = -9.0, depth = 9
iter = 18464, queue = 26534, heur = -9.0, depth = 9
iter = 18465, queue = 26533, heur = -9.0, depth = 9
```

```
iter = 18466, queue = 26536, heur = -9.0, depth = 9
iter = 18467, queue = 26535, heur = -9.0, depth = 9
iter = 18468, queue = 26534, heur = -9.0, depth = 9
iter = 18469, queue = 26534, heur = -9.0, depth = 9
iter = 18470, queue = 26536, heur = -9.0, depth = 9
iter = 18471, queue = 26537, heur = -9.0, depth = 9
iter = 18472, queue = 26537, heur = -9.0, depth = 9
iter = 18473, queue = 26540, heur = -9.0, depth = 9
iter = 18474, queue = 26543, heur = -9.0, depth = 9
iter = 18475, queue = 26544, heur = -9.0, depth = 9
iter = 18476, queue = 26545, heur = -9.0, depth = 9
iter = 18477, queue = 26546, heur = -9.0, depth = 9
iter = 18478, queue = 26549, heur = -9.0, depth = 9
iter = 18479, queue = 26550, heur = -9.0, depth = 9
iter = 18480, queue = 26550, heur = -9.0, depth = 9
iter = 18481, queue = 26551, heur = -9.0, depth = 9
iter = 18482, queue = 26551, heur = -9.0, depth = 9
iter = 18483, queue = 26553, heur = -9.0, depth = 9
iter = 18484, queue = 26554, heur = -9.0, depth = 9
iter = 18485, queue = 26555, heur = -9.0, depth = 9
iter = 18486, queue = 26556, heur = -9.0, depth = 9
iter = 18487, queue = 26555, heur = -9.0, depth = 9
iter = 18488, queue = 26557, heur = -9.0, depth = 9
iter = 18489, queue = 26558, heur = -9.0, depth = 9
iter = 18490, queue = 26559, heur = -9.0, depth = 10
iter = 18491, queue = 26562, heur = -9.0, depth = 9
iter = 18492, queue = 26565, heur = -9.0, depth = 9
iter = 18493, queue = 26564, heur = -9.0, depth = 9
iter = 18494, queue = 26567, heur = -9.0, depth = 9
iter = 18495, queue = 26570, heur = -9.0, depth = 9
iter = 18496, queue = 26570, heur = -9.0, depth = 9
iter = 18497, queue = 26573, heur = -9.0, depth = 9
iter = 18498, queue = 26574, heur = -9.0, depth = 10
iter = 18499, queue = 26577, heur = -9.0, depth = 9
iter = 18500, queue = 26578, heur = -9.0, depth = 9
iter = 18501, queue = 26578, heur = -9.0, depth = 9
iter = 18502, queue = 26579, heur = -9.0, depth = 10
iter = 18503, queue = 26582, heur = -9.0, depth = 9
iter = 18504, queue = 26581, heur = -9.0, depth = 9
iter = 18505, queue = 26581, heur = -9.0, depth = 9
iter = 18506, queue = 26582, heur = -9.0, depth = 9
iter = 18507, queue = 26583, heur = -9.0, depth = 9
iter = 18508, queue = 26584, heur = -9.0, depth = 9
iter = 18509, queue = 26585, heur = -9.0, depth = 9
iter = 18510, queue = 26587, heur = -9.0, depth = 9
iter = 18511, queue = 26588, heur = -9.0, depth = 10
iter = 18512, queue = 26590, heur = -9.0, depth = 9
iter = 18513, queue = 26591, heur = -9.0, depth = 10
iter = 18514, queue = 26594, heur = -9.0, depth = 10
iter = 18515, queue = 26597, heur = -9.0, depth = 9
iter = 18516, queue = 26596, heur = -9.0, depth = 10
iter = 18517, queue = 26599, heur = -9.0, depth = 9
iter = 18518, queue = 26600, heur = -9.0, depth = 10
iter = 18519, queue = 26600, heur = -9.0, depth = 9
iter = 18520, queue = 26601, heur = -9.0, depth = 9
iter = 18521, queue = 26602, heur = -9.0, depth = 9
iter = 18522, queue = 26605, heur = -9.0, depth = 9
iter = 18523, queue = 26608, heur = -9.0, depth = 10
iter = 18524, queue = 26610, heur = -9.0, depth = 9
```

```
iter = 18525, queue = 26611, heur = -9.0, depth = 9
iter = 18526, queue = 26612, heur = -9.0, depth = 9
iter = 18527, queue = 26615, heur = -9.0, depth = 9
iter = 18528, queue = 26618, heur = -9.0, depth = 9
iter = 18529, queue = 26617, heur = -9.0, depth = 9
iter = 18530, queue = 26618, heur = -9.0, depth = 9
iter = 18531, queue = 26619, heur = -9.0, depth = 9
iter = 18532, queue = 26621, heur = -9.0, depth = 9
iter = 18533, queue = 26621, heur = -9.0, depth = 9
iter = 18534, queue = 26622, heur = -9.0, depth = 10
iter = 18535, queue = 26623, heur = -9.0, depth = 9
iter = 18536, queue = 26624, heur = -9.0, depth = 9
iter = 18537, queue = 26625, heur = -9.0, depth = 9
iter = 18538, queue = 26626, heur = -9.0, depth = 9
iter = 18539, queue = 26629, heur = -9.0, depth = 9
iter = 18540, queue = 26631, heur = -9.0, depth = 9
iter = 18541, queue = 26631, heur = -9.0, depth = 9
iter = 18542, queue = 26631, heur = -9.0, depth = 10
iter = 18543, queue = 26632, heur = -9.0, depth = 9
iter = 18544, queue = 26633, heur = -9.0, depth = 9
iter = 18545, queue = 26632, heur = -9.0, depth = 9
iter = 18546, queue = 26633, heur = -9.0, depth = 11
iter = 18547, queue = 26636, heur = -9.0, depth = 9
iter = 18548, queue = 26639, heur = -9.0, depth = 12
iter = 18549, queue = 26641, heur = -9.0, depth = 9
iter = 18550, queue = 26642, heur = -9.0, depth = 9
iter = 18551, queue = 26643, heur = -9.0, depth = 10
iter = 18552, queue = 26646, heur = -9.0, depth = 10
iter = 18553, queue = 26647, heur = -9.0, depth = 9
iter = 18554, queue = 26647, heur = -9.0, depth = 9
iter = 18555, queue = 26648, heur = -9.0, depth = 9
iter = 18556, queue = 26649, heur = -9.0, depth = 10
iter = 18557, queue = 26650, heur = -9.0, depth = 9
iter = 18558, queue = 26650, heur = -9.0, depth = 9
iter = 18559, queue = 26650, heur = -9.0, depth = 9
iter = 18560, queue = 26651, heur = -9.0, depth = 9
iter = 18561, queue = 26652, heur = -9.0, depth = 9
iter = 18562, queue = 26651, heur = -9.0, depth = 9
iter = 18563, queue = 26652, heur = -9.0, depth = 9
iter = 18564, queue = 26651, heur = -9.0, depth = 10
iter = 18565, queue = 26652, heur = -9.0, depth = 10
iter = 18566, queue = 26653, heur = -9.0, depth = 9
iter = 18567, queue = 26655, heur = -9.0, depth = 9
iter = 18568, queue = 26656, heur = -9.0, depth = 9
iter = 18569, queue = 26657, heur = -9.0, depth = 9
iter = 18570, queue = 26656, heur = -9.0, depth = 9
iter = 18571, queue = 26656, heur = -9.0, depth = 10
iter = 18572, queue = 26658, heur = -9.0, depth = 9
iter = 18573, queue = 26658, heur = -9.0, depth = 9
iter = 18574, queue = 26660, heur = -9.0, depth = 9
iter = 18575, queue = 26659, heur = -9.0, depth = 9
iter = 18576, queue = 26659, heur = -9.0, depth = 9
iter = 18577, queue = 26660, heur = -9.0, depth = 9
iter = 18578, queue = 26660, heur = -9.0, depth = 9
iter = 18579, queue = 26661, heur = -9.0, depth = 9
iter = 18580, queue = 26663, heur = -9.0, depth = 9
iter = 18581, queue = 26665, heur = -9.0, depth = 9
iter = 18582, queue = 26667, heur = -9.0, depth = 9
iter = 18583, queue = 26668, heur = -9.0, depth = 9
```

```
iter = 18584, queue = 26669, heur = -9.0, depth = 9
iter = 18585, queue = 26672, heur = -9.0, depth = 9
iter = 18586, queue = 26673, heur = -9.0, depth = 9
iter = 18587, queue = 26674, heur = -9.0, depth = 9
iter = 18588, queue = 26675, heur = -9.0, depth = 9
iter = 18589, queue = 26677, heur = -9.0, depth = 9
iter = 18590, queue = 26678, heur = -9.0, depth = 9
iter = 18591, queue = 26681, heur = -9.0, depth = 9
iter = 18592, queue = 26681, heur = -9.0, depth = 9
iter = 18593, queue = 26682, heur = -9.0, depth = 9
iter = 18594, queue = 26685, heur = -9.0, depth = 9
iter = 18595, queue = 26688, heur = -9.0, depth = 9
iter = 18596, queue = 26689, heur = -9.0, depth = 9
iter = 18597, queue = 26690, heur = -9.0, depth = 9
iter = 18598, queue = 26692, heur = -9.0, depth = 9
iter = 18599, queue = 26691, heur = -9.0, depth = 9
iter = 18600, queue = 26690, heur = -9.0, depth = 9
iter = 18601, queue = 26690, heur = -9.0, depth = 9
iter = 18602, queue = 26693, heur = -9.0, depth = 9
iter = 18603, queue = 26696, heur = -9.0, depth = 9
iter = 18604, queue = 26697, heur = -9.0, depth = 9
iter = 18605, queue = 26698, heur = -9.0, depth = 9
iter = 18606, queue = 26697, heur = -9.0, depth = 9
iter = 18607, queue = 26700, heur = -9.0, depth = 9
iter = 18608, queue = 26701, heur = -9.0, depth = 9
iter = 18609, queue = 26700, heur = -9.0, depth = 9
iter = 18610, queue = 26701, heur = -9.0, depth = 9
iter = 18611, queue = 26702, heur = -9.0, depth = 9
iter = 18612, queue = 26702, heur = -9.0, depth = 10
iter = 18613, queue = 26702, heur = -9.0, depth = 10
iter = 18614, queue = 26704, heur = -9.0, depth = 9
iter = 18615, queue = 26705, heur = -9.0, depth = 9
iter = 18616, queue = 26704, heur = -9.0, depth = 9
iter = 18617, queue = 26706, heur = -9.0, depth = 9
iter = 18618, queue = 26708, heur = -9.0, depth = 9
iter = 18619, queue = 26707, heur = -9.0, depth = 9
iter = 18620, queue = 26710, heur = -9.0, depth = 9
iter = 18621, queue = 26711, heur = -9.0, depth = 10
iter = 18622, queue = 26712, heur = -9.0, depth = 9
iter = 18623, queue = 26713, heur = -9.0, depth = 9
iter = 18624, queue = 26714, heur = -9.0, depth = 9
iter = 18625, queue = 26714, heur = -9.0, depth = 9
iter = 18626, queue = 26717, heur = -9.0, depth = 9
iter = 18627, queue = 26718, heur = -9.0, depth = 10
iter = 18628, queue = 26719, heur = -9.0, depth = 9
iter = 18629, queue = 26720, heur = -9.0, depth = 10
iter = 18630, queue = 26721, heur = -9.0, depth = 9
iter = 18631, queue = 26722, heur = -9.0, depth = 9
iter = 18632, queue = 26724, heur = -9.0, depth = 9
iter = 18633, queue = 26727, heur = -9.0, depth = 9
iter = 18634, queue = 26729, heur = -9.0, depth = 9
iter = 18635, queue = 26730, heur = -9.0, depth = 9
iter = 18636, queue = 26729, heur = -9.0, depth = 9
iter = 18637, queue = 26730, heur = -9.0, depth = 9
iter = 18638, queue = 26729, heur = -9.0, depth = 9
iter = 18639, queue = 26730, heur = -9.0, depth = 9
iter = 18640, queue = 26730, heur = -9.0, depth = 9
iter = 18641, queue = 26730, heur = -9.0, depth = 9
iter = 18642, queue = 26731, heur = -9.0, depth = 9
```

```
iter = 18643, queue = 26732, heur = -9.0, depth = 9
iter = 18644, queue = 26731, heur = -9.0, depth = 9
iter = 18645, queue = 26731, heur = -9.0, depth = 9
iter = 18646, queue = 26734, heur = -9.0, depth = 9
iter = 18647, queue = 26733, heur = -9.0, depth = 10
iter = 18648, queue = 26735, heur = -9.0, depth = 9
iter = 18649, queue = 26736, heur = -9.0, depth = 10
iter = 18650, queue = 26739, heur = -9.0, depth = 9
iter = 18651, queue = 26740, heur = -9.0, depth = 9
iter = 18652, queue = 26741, heur = -9.0, depth = 9
iter = 18653, queue = 26740, heur = -9.0, depth = 9
iter = 18654, queue = 26741, heur = -9.0, depth = 9
iter = 18655, queue = 26742, heur = -9.0, depth = 9
iter = 18656, queue = 26741, heur = -9.0, depth = 9
iter = 18657, queue = 26744, heur = -9.0, depth = 9
iter = 18658, queue = 26745, heur = -9.0, depth = 9
iter = 18659, queue = 26745, heur = -9.0, depth = 9
iter = 18660, queue = 26746, heur = -9.0, depth = 10
iter = 18661, queue = 26747, heur = -9.0, depth = 10
iter = 18662, queue = 26748, heur = -9.0, depth = 9
iter = 18663, queue = 26747, heur = -9.0, depth = 9
iter = 18664, queue = 26746, heur = -9.0, depth = 9
iter = 18665, queue = 26746, heur = -9.0, depth = 10
iter = 18666, queue = 26747, heur = -9.0, depth = 10
iter = 18667, queue = 26748, heur = -9.0, depth = 9
iter = 18668, queue = 26751, heur = -9.0, depth = 10
iter = 18669, queue = 26753, heur = -9.0, depth = 9
iter = 18670, queue = 26754, heur = -9.0, depth = 9
iter = 18671, queue = 26755, heur = -9.0, depth = 9
iter = 18672, queue = 26756, heur = -9.0, depth = 9
iter = 18673, queue = 26757, heur = -9.0, depth = 9
iter = 18674, queue = 26758, heur = -9.0, depth = 9
iter = 18675, queue = 26760, heur = -9.0, depth = 9
iter = 18676, queue = 26759, heur = -9.0, depth = 9
iter = 18677, queue = 26762, heur = -9.0, depth = 10
iter = 18678, queue = 26762, heur = -9.0, depth = 9
iter = 18679, queue = 26764, heur = -9.0, depth = 9
iter = 18680, queue = 26765, heur = -9.0, depth = 9
iter = 18681, queue = 26767, heur = -9.0, depth = 9
iter = 18682, queue = 26770, heur = -9.0, depth = 9
iter = 18683, queue = 26771, heur = -9.0, depth = 10
iter = 18684, queue = 26770, heur = -9.0, depth = 9
iter = 18685, queue = 26771, heur = -9.0, depth = 9
iter = 18686, queue = 26772, heur = -9.0, depth = 9
iter = 18687, queue = 26773, heur = -9.0, depth = 9
iter = 18688, queue = 26774, heur = -9.0, depth = 9
iter = 18689, queue = 26775, heur = -9.0, depth = 10
iter = 18690, queue = 26778, heur = -9.0, depth = 9
iter = 18691, queue = 26781, heur = -9.0, depth = 9
iter = 18692, queue = 26780, heur = -9.0, depth = 9
iter = 18693, queue = 26781, heur = -9.0, depth = 9
iter = 18694, queue = 26784, heur = -9.0, depth = 9
iter = 18695, queue = 26787, heur = -9.0, depth = 9
iter = 18696, queue = 26787, heur = -9.0, depth = 9
iter = 18697, queue = 26787, heur = -9.0, depth = 9
iter = 18698, queue = 26790, heur = -9.0, depth = 9
iter = 18699, queue = 26791, heur = -9.0, depth = 9
iter = 18700, queue = 26794, heur = -9.0, depth = 9
iter = 18701, queue = 26793, heur = -9.0, depth = 9
```

```
iter = 18702, queue = 26794, heur = -9.0, depth = 9
iter = 18703, queue = 26795, heur = -9.0, depth = 9
iter = 18704, queue = 26797, heur = -9.0, depth = 9
iter = 18705, queue = 26798, heur = -9.0, depth = 9
iter = 18706, queue = 26799, heur = -9.0, depth = 9
iter = 18707, queue = 26802, heur = -9.0, depth = 9
iter = 18708, queue = 26803, heur = -9.0, depth = 9
iter = 18709, queue = 26804, heur = -9.0, depth = 10
iter = 18710, queue = 26805, heur = -9.0, depth = 9
iter = 18711, queue = 26805, heur = -9.0, depth = 9
iter = 18712, queue = 26804, heur = -9.0, depth = 9
iter = 18713, queue = 26806, heur = -9.0, depth = 9
iter = 18714, queue = 26809, heur = -9.0, depth = 9
iter = 18715, queue = 26810, heur = -9.0, depth = 9
iter = 18716, queue = 26813, heur = -9.0, depth = 10
iter = 18717, queue = 26816, heur = -9.0, depth = 9
iter = 18718, queue = 26815, heur = -9.0, depth = 11
iter = 18719, queue = 26818, heur = -9.0, depth = 9
iter = 18720, queue = 26821, heur = -9.0, depth = 9
iter = 18721, queue = 26822, heur = -9.0, depth = 9
iter = 18722, queue = 26823, heur = -9.0, depth = 9
iter = 18723, queue = 26825, heur = -9.0, depth = 9
iter = 18724, queue = 26828, heur = -9.0, depth = 9
iter = 18725, queue = 26831, heur = -9.0, depth = 11
iter = 18726, queue = 26833, heur = -9.0, depth = 9
iter = 18727, queue = 26834, heur = -9.0, depth = 9
iter = 18728, queue = 26837, heur = -9.0, depth = 10
iter = 18729, queue = 26840, heur = -9.0, depth = 10
iter = 18730, queue = 26841, heur = -9.0, depth = 9
iter = 18731, queue = 26842, heur = -9.0, depth = 9
iter = 18732, queue = 26842, heur = -9.0, depth = 9
iter = 18733, queue = 26842, heur = -9.0, depth = 9
iter = 18734, queue = 26845, heur = -9.0, depth = 10
iter = 18735, queue = 26846, heur = -9.0, depth = 9
iter = 18736, queue = 26847, heur = -9.0, depth = 10
iter = 18737, queue = 26849, heur = -9.0, depth = 9
iter = 18738, queue = 26850, heur = -9.0, depth = 9
iter = 18739, queue = 26851, heur = -9.0, depth = 11
iter = 18740, queue = 26852, heur = -9.0, depth = 11
iter = 18741, queue = 26855, heur = -9.0, depth = 10
iter = 18742, queue = 26858, heur = -9.0, depth = 9
iter = 18743, queue = 26858, heur = -9.0, depth = 9
iter = 18744, queue = 26859, heur = -9.0, depth = 9
iter = 18745, queue = 26861, heur = -9.0, depth = 9
iter = 18746, queue = 26863, heur = -9.0, depth = 9
iter = 18747, queue = 26864, heur = -9.0, depth = 9
iter = 18748, queue = 26865, heur = -9.0, depth = 9
iter = 18749, queue = 26865, heur = -9.0, depth = 9
iter = 18750, queue = 26865, heur = -9.0, depth = 9
iter = 18751, queue = 26867, heur = -9.0, depth = 9
iter = 18752, queue = 26866, heur = -9.0, depth = 9
iter = 18753, queue = 26867, heur = -9.0, depth = 9
iter = 18754, queue = 26869, heur = -9.0, depth = 10
iter = 18755, queue = 26871, heur = -9.0, depth = 9
iter = 18756, queue = 26871, heur = -9.0, depth = 9
iter = 18757, queue = 26874, heur = -9.0, depth = 9
iter = 18758, queue = 26875, heur = -9.0, depth = 10
iter = 18759, queue = 26876, heur = -9.0, depth = 9
iter = 18760, queue = 26876, heur = -9.0, depth = 9
```

```
iter = 18761, queue = 26876, heur = -9.0, depth = 9
iter = 18762, queue = 26876, heur = -9.0, depth = 9
iter = 18763, queue = 26877, heur = -9.0, depth = 9
iter = 18764, queue = 26878, heur = -9.0, depth = 9
iter = 18765, queue = 26878, heur = -9.0, depth = 9
iter = 18766, queue = 26877, heur = -9.0, depth = 9
iter = 18767, queue = 26880, heur = -9.0, depth = 9
iter = 18768, queue = 26881, heur = -9.0, depth = 9
iter = 18769, queue = 26882, heur = -9.0, depth = 9
iter = 18770, queue = 26885, heur = -9.0, depth = 9
iter = 18771, queue = 26888, heur = -9.0, depth = 9
iter = 18772, queue = 26888, heur = -9.0, depth = 10
iter = 18773, queue = 26891, heur = -9.0, depth = 10
iter = 18774, queue = 26893, heur = -9.0, depth = 9
iter = 18775, queue = 26896, heur = -9.0, depth = 9
iter = 18776, queue = 26897, heur = -9.0, depth = 10
iter = 18777, queue = 26898, heur = -9.0, depth = 10
iter = 18778, queue = 26900, heur = -9.0, depth = 9
iter = 18779, queue = 26903, heur = -9.0, depth = 9
iter = 18780, queue = 26904, heur = -9.0, depth = 9
iter = 18781, queue = 26905, heur = -9.0, depth = 9
iter = 18782, queue = 26906, heur = -9.0, depth = 9
iter = 18783, queue = 26906, heur = -9.0, depth = 9
iter = 18784, queue = 26907, heur = -9.0, depth = 9
iter = 18785, queue = 26908, heur = -9.0, depth = 9
iter = 18786, queue = 26910, heur = -9.0, depth = 9
iter = 18787, queue = 26909, heur = -9.0, depth = 9
iter = 18788, queue = 26912, heur = -9.0, depth = 9
iter = 18789, queue = 26913, heur = -9.0, depth = 9
iter = 18790, queue = 26916, heur = -9.0, depth = 9
iter = 18791, queue = 26916, heur = -9.0, depth = 9
iter = 18792, queue = 26915, heur = -9.0, depth = 9
iter = 18793, queue = 26916, heur = -9.0, depth = 9
iter = 18794, queue = 26917, heur = -9.0, depth = 9
iter = 18795, queue = 26918, heur = -9.0, depth = 9
iter = 18796, queue = 26921, heur = -9.0, depth = 9
iter = 18797, queue = 26922, heur = -9.0, depth = 9
iter = 18798, queue = 26923, heur = -9.0, depth = 9
iter = 18799, queue = 26923, heur = -9.0, depth = 9
iter = 18800, queue = 26924, heur = -9.0, depth = 9
iter = 18801, queue = 26925, heur = -9.0, depth = 9
iter = 18802, queue = 26924, heur = -9.0, depth = 9
iter = 18803, queue = 26925, heur = -9.0, depth = 9
iter = 18804, queue = 26927, heur = -9.0, depth = 9
iter = 18805, queue = 26929, heur = -9.0, depth = 9
iter = 18806, queue = 26929, heur = -9.0, depth = 9
iter = 18807, queue = 26930, heur = -9.0, depth = 9
iter = 18808, queue = 26932, heur = -9.0, depth = 9
iter = 18809, queue = 26932, heur = -9.0, depth = 9
iter = 18810, queue = 26933, heur = -9.0, depth = 9
iter = 18811, queue = 26934, heur = -9.0, depth = 9
iter = 18812, queue = 26937, heur = -9.0, depth = 9
iter = 18813, queue = 26937, heur = -9.0, depth = 9
iter = 18814, queue = 26936, heur = -9.0, depth = 9
iter = 18815, queue = 26939, heur = -9.0, depth = 9
iter = 18816, queue = 26940, heur = -9.0, depth = 9
iter = 18817, queue = 26941, heur = -9.0, depth = 9
iter = 18818, queue = 26942, heur = -9.0, depth = 9
iter = 18819, queue = 26944, heur = -9.0, depth = 9
```

```
iter = 18820, queue = 26945, heur = -9.0, depth = 9
iter = 18821, queue = 26945, heur = -9.0, depth = 9
iter = 18822, queue = 26944, heur = -9.0, depth = 9
iter = 18823, queue = 26943, heur = -9.0, depth = 9
iter = 18824, queue = 26942, heur = -9.0, depth = 9
iter = 18825, queue = 26945, heur = -9.0, depth = 10
iter = 18826, queue = 26946, heur = -9.0, depth = 9
iter = 18827, queue = 26947, heur = -9.0, depth = 9
iter = 18828, queue = 26948, heur = -9.0, depth = 9
iter = 18829, queue = 26949, heur = -9.0, depth = 9
iter = 18830, queue = 26950, heur = -9.0, depth = 9
iter = 18831, queue = 26950, heur = -9.0, depth = 9
iter = 18832, queue = 26949, heur = -9.0, depth = 9
iter = 18833, queue = 26950, heur = -9.0, depth = 9
iter = 18834, queue = 26951, heur = -9.0, depth = 9
iter = 18835, queue = 26954, heur = -9.0, depth = 9
iter = 18836, queue = 26954, heur = -9.0, depth = 9
iter = 18837, queue = 26956, heur = -9.0, depth = 9
iter = 18838, queue = 26957, heur = -9.0, depth = 9
iter = 18839, queue = 26958, heur = -9.0, depth = 9
iter = 18840, queue = 26959, heur = -9.0, depth = 9
iter = 18841, queue = 26960, heur = -9.0, depth = 9
iter = 18842, queue = 26960, heur = -9.0, depth = 9
iter = 18843, queue = 26962, heur = -9.0, depth = 9
iter = 18844, queue = 26963, heur = -9.0, depth = 10
iter = 18845, queue = 26966, heur = -9.0, depth = 10
iter = 18846, queue = 26968, heur = -9.0, depth = 9
iter = 18847, queue = 26969, heur = -9.0, depth = 9
iter = 18848, queue = 26972, heur = -9.0, depth = 10
iter = 18849, queue = 26975, heur = -9.0, depth = 10
iter = 18850, queue = 26978, heur = -9.0, depth = 9
iter = 18851, queue = 26981, heur = -9.0, depth = 9
iter = 18852, queue = 26980, heur = -9.0, depth = 9
iter = 18853, queue = 26981, heur = -9.0, depth = 9
iter = 18854, queue = 26984, heur = -9.0, depth = 9
iter = 18855, queue = 26983, heur = -9.0, depth = 9
iter = 18856, queue = 26984, heur = -9.0, depth = 9
iter = 18857, queue = 26987, heur = -9.0, depth = 9
iter = 18858, queue = 26988, heur = -9.0, depth = 9
iter = 18859, queue = 26989, heur = -9.0, depth = 10
iter = 18860, queue = 26989, heur = -9.0, depth = 9
iter = 18861, queue = 26989, heur = -9.0, depth = 9
iter = 18862, queue = 26988, heur = -9.0, depth = 9
iter = 18863, queue = 26989, heur = -9.0, depth = 9
iter = 18864, queue = 26992, heur = -9.0, depth = 9
iter = 18865, queue = 26995, heur = -9.0, depth = 9
iter = 18866, queue = 26998, heur = -9.0, depth = 9
iter = 18867, queue = 27001, heur = -9.0, depth = 9
iter = 18868, queue = 27004, heur = -9.0, depth = 9
iter = 18869, queue = 27007, heur = -9.0, depth = 9
iter = 18870, queue = 27009, heur = -9.0, depth = 9
iter = 18871, queue = 27010, heur = -9.0, depth = 9
iter = 18872, queue = 27011, heur = -9.0, depth = 9
iter = 18873, queue = 27011, heur = -9.0, depth = 9
iter = 18874, queue = 27014, heur = -9.0, depth = 9
iter = 18875, queue = 27014, heur = -9.0, depth = 9
iter = 18876, queue = 27016, heur = -9.0, depth = 9
iter = 18877, queue = 27019, heur = -9.0, depth = 9
iter = 18878, queue = 27022, heur = -9.0, depth = 9
```

```
iter = 18879, queue = 27021, heur = -9.0, depth = 9
iter = 18880, queue = 27020, heur = -9.0, depth = 9
iter = 18881, queue = 27022, heur = -9.0, depth = 9
iter = 18882, queue = 27023, heur = -9.0, depth = 9
iter = 18883, queue = 27026, heur = -9.0, depth = 9
iter = 18884, queue = 27027, heur = -9.0, depth = 9
iter = 18885, queue = 27028, heur = -9.0, depth = 9
iter = 18886, queue = 27030, heur = -9.0, depth = 9
iter = 18887, queue = 27031, heur = -9.0, depth = 9
iter = 18888, queue = 27032, heur = -9.0, depth = 9
iter = 18889, queue = 27031, heur = -9.0, depth = 9
iter = 18890, queue = 27032, heur = -9.0, depth = 11
iter = 18891, queue = 27031, heur = -9.0, depth = 9
iter = 18892, queue = 27032, heur = -9.0, depth = 9
iter = 18893, queue = 27031, heur = -9.0, depth = 9
iter = 18894, queue = 27030, heur = -9.0, depth = 9
iter = 18895, queue = 27033, heur = -9.0, depth = 9
iter = 18896, queue = 27034, heur = -9.0, depth = 9
iter = 18897, queue = 27034, heur = -9.0, depth = 11
iter = 18898, queue = 27035, heur = -9.0, depth = 9
iter = 18899, queue = 27036, heur = -9.0, depth = 9
iter = 18900, queue = 27036, heur = -9.0, depth = 11
iter = 18901, queue = 27039, heur = -9.0, depth = 9
iter = 18902, queue = 27040, heur = -9.0, depth = 10
iter = 18903, queue = 27041, heur = -9.0, depth = 9
iter = 18904, queue = 27042, heur = -9.0, depth = 9
iter = 18905, queue = 27042, heur = -9.0, depth = 9
iter = 18906, queue = 27041, heur = -9.0, depth = 10
iter = 18907, queue = 27043, heur = -9.0, depth = 9
iter = 18908, queue = 27046, heur = -9.0, depth = 9
iter = 18909, queue = 27045, heur = -9.0, depth = 9
iter = 18910, queue = 27047, heur = -9.0, depth = 9
iter = 18911, queue = 27050, heur = -9.0, depth = 9
iter = 18912, queue = 27052, heur = -9.0, depth = 9
iter = 18913, queue = 27051, heur = -9.0, depth = 9
iter = 18914, queue = 27054, heur = -9.0, depth = 9
iter = 18915, queue = 27056, heur = -9.0, depth = 9
iter = 18916, queue = 27057, heur = -9.0, depth = 9
iter = 18917, queue = 27058, heur = -9.0, depth = 9
iter = 18918, queue = 27061, heur = -9.0, depth = 9
iter = 18919, queue = 27062, heur = -9.0, depth = 9
iter = 18920, queue = 27062, heur = -9.0, depth = 10
iter = 18921, queue = 27063, heur = -9.0, depth = 9
iter = 18922, queue = 27066, heur = -9.0, depth = 9
iter = 18923, queue = 27069, heur = -9.0, depth = 9
iter = 18924, queue = 27071, heur = -9.0, depth = 9
iter = 18925, queue = 27072, heur = -9.0, depth = 9
iter = 18926, queue = 27075, heur = -9.0, depth = 9
iter = 18927, queue = 27076, heur = -9.0, depth = 10
iter = 18928, queue = 27078, heur = -9.0, depth = 9
iter = 18929, queue = 27079, heur = -9.0, depth = 9
iter = 18930, queue = 27080, heur = -9.0, depth = 9
iter = 18931, queue = 27082, heur = -9.0, depth = 9
iter = 18932, queue = 27081, heur = -9.0, depth = 9
iter = 18933, queue = 27082, heur = -9.0, depth = 9
iter = 18934, queue = 27085, heur = -9.0, depth = 9
iter = 18935, queue = 27086, heur = -9.0, depth = 9
iter = 18936, queue = 27087, heur = -9.0, depth = 9
iter = 18937, queue = 27088, heur = -9.0, depth = 9
```

```
iter = 18938, queue = 27091, heur = -9.0, depth = 9
iter = 18939, queue = 27094, heur = -9.0, depth = 9
iter = 18940, queue = 27094, heur = -9.0, depth = 9
iter = 18941, queue = 27096, heur = -9.0, depth = 9
iter = 18942, queue = 27096, heur = -9.0, depth = 9
iter = 18943, queue = 27099, heur = -9.0, depth = 9
iter = 18944, queue = 27100, heur = -9.0, depth = 9
iter = 18945, queue = 27101, heur = -9.0, depth = 9
iter = 18946, queue = 27102, heur = -9.0, depth = 9
iter = 18947, queue = 27105, heur = -9.0, depth = 9
iter = 18948, queue = 27106, heur = -9.0, depth = 9
iter = 18949, queue = 27106, heur = -9.0, depth = 10
iter = 18950, queue = 27105, heur = -9.0, depth = 9
iter = 18951, queue = 27105, heur = -9.0, depth = 9
iter = 18952, queue = 27104, heur = -9.0, depth = 10
iter = 18953, queue = 27106, heur = -9.0, depth = 9
iter = 18954, queue = 27107, heur = -9.0, depth = 9
iter = 18955, queue = 27110, heur = -9.0, depth = 9
iter = 18956, queue = 27112, heur = -9.0, depth = 9
iter = 18957, queue = 27115, heur = -9.0, depth = 9
iter = 18958, queue = 27117, heur = -9.0, depth = 9
iter = 18959, queue = 27119, heur = -9.0, depth = 9
iter = 18960, queue = 27120, heur = -9.0, depth = 9
iter = 18961, queue = 27121, heur = -9.0, depth = 9
iter = 18962, queue = 27124, heur = -9.0, depth = 9
iter = 18963, queue = 27125, heur = -9.0, depth = 9
iter = 18964, queue = 27126, heur = -9.0, depth = 9
iter = 18965, queue = 27127, heur = -9.0, depth = 9
iter = 18966, queue = 27127, heur = -9.0, depth = 9
iter = 18967, queue = 27128, heur = -9.0, depth = 9
iter = 18968, queue = 27127, heur = -9.0, depth = 9
iter = 18969, queue = 27127, heur = -9.0, depth = 9
iter = 18970, queue = 27128, heur = -9.0, depth = 9
iter = 18971, queue = 27129, heur = -9.0, depth = 9
iter = 18972, queue = 27131, heur = -9.0, depth = 9
iter = 18973, queue = 27130, heur = -9.0, depth = 9
iter = 18974, queue = 27133, heur = -9.0, depth = 9
iter = 18975, queue = 27134, heur = -9.0, depth = 9
iter = 18976, queue = 27135, heur = -9.0, depth = 9
iter = 18977, queue = 27135, heur = -9.0, depth = 9
iter = 18978, queue = 27137, heur = -9.0, depth = 9
iter = 18979, queue = 27138, heur = -9.0, depth = 9
iter = 18980, queue = 27140, heur = -9.0, depth = 9
iter = 18981, queue = 27143, heur = -9.0, depth = 9
iter = 18982, queue = 27144, heur = -9.0, depth = 9
iter = 18983, queue = 27146, heur = -9.0, depth = 9
iter = 18984, queue = 27145, heur = -9.0, depth = 9
iter = 18985, queue = 27146, heur = -9.0, depth = 9
iter = 18986, queue = 27149, heur = -9.0, depth = 9
iter = 18987, queue = 27150, heur = -9.0, depth = 9
iter = 18988, queue = 27151, heur = -9.0, depth = 9
iter = 18989, queue = 27152, heur = -9.0, depth = 9
iter = 18990, queue = 27154, heur = -9.0, depth = 9
iter = 18991, queue = 27155, heur = -9.0, depth = 9
iter = 18992, queue = 27154, heur = -9.0, depth = 9
iter = 18993, queue = 27156, heur = -9.0, depth = 9
iter = 18994, queue = 27156, heur = -9.0, depth = 9
iter = 18995, queue = 27156, heur = -9.0, depth = 9
iter = 18996, queue = 27159, heur = -9.0, depth = 9
```

```
iter = 18997, queue = 27160, heur = -9.0, depth = 9
iter = 18998, queue = 27160, heur = -9.0, depth = 9
iter = 18999, queue = 27160, heur = -9.0, depth = 9
iter = 19000, queue = 27161, heur = -9.0, depth = 9
iter = 19001, queue = 27162, heur = -9.0, depth = 9
iter = 19002, queue = 27163, heur = -9.0, depth = 9
iter = 19003, queue = 27164, heur = -9.0, depth = 9
iter = 19004, queue = 27167, heur = -9.0, depth = 9
iter = 19005, queue = 27169, heur = -9.0, depth = 9
iter = 19006, queue = 27170, heur = -9.0, depth = 9
iter = 19007, queue = 27171, heur = -9.0, depth = 9
iter = 19008, queue = 27172, heur = -9.0, depth = 9
iter = 19009, queue = 27173, heur = -9.0, depth = 9
iter = 19010, queue = 27176, heur = -9.0, depth = 9
iter = 19011, queue = 27179, heur = -9.0, depth = 9
iter = 19012, queue = 27182, heur = -9.0, depth = 9
iter = 19013, queue = 27183, heur = -9.0, depth = 10
iter = 19014, queue = 27182, heur = -9.0, depth = 9
iter = 19015, queue = 27183, heur = -9.0, depth = 9
iter = 19016, queue = 27183, heur = -9.0, depth = 9
iter = 19017, queue = 27186, heur = -9.0, depth = 9
iter = 19018, queue = 27188, heur = -9.0, depth = 9
iter = 19019, queue = 27189, heur = -9.0, depth = 9
iter = 19020, queue = 27190, heur = -9.0, depth = 10
iter = 19021, queue = 27192, heur = -9.0, depth = 9
iter = 19022, queue = 27194, heur = -9.0, depth = 9
iter = 19023, queue = 27197, heur = -9.0, depth = 9
iter = 19024, queue = 27196, heur = -9.0, depth = 9
iter = 19025, queue = 27197, heur = -9.0, depth = 9
iter = 19026, queue = 27198, heur = -9.0, depth = 9
iter = 19027, queue = 27199, heur = -9.0, depth = 9
iter = 19028, queue = 27202, heur = -9.0, depth = 9
iter = 19029, queue = 27201, heur = -9.0, depth = 10
iter = 19030, queue = 27202, heur = -9.0, depth = 9
iter = 19031, queue = 27203, heur = -9.0, depth = 9
iter = 19032, queue = 27203, heur = -9.0, depth = 9
iter = 19033, queue = 27204, heur = -9.0, depth = 9
iter = 19034, queue = 27206, heur = -9.0, depth = 9
iter = 19035, queue = 27206, heur = -9.0, depth = 9
iter = 19036, queue = 27208, heur = -9.0, depth = 9
iter = 19037, queue = 27211, heur = -9.0, depth = 9
iter = 19038, queue = 27213, heur = -9.0, depth = 9
iter = 19039, queue = 27215, heur = -9.0, depth = 9
iter = 19040, queue = 27215, heur = -9.0, depth = 9
iter = 19041, queue = 27218, heur = -9.0, depth = 9
iter = 19042, queue = 27220, heur = -9.0, depth = 9
iter = 19043, queue = 27223, heur = -9.0, depth = 9
iter = 19044, queue = 27224, heur = -9.0, depth = 9
iter = 19045, queue = 27223, heur = -9.0, depth = 9
iter = 19046, queue = 27224, heur = -9.0, depth = 9
iter = 19047, queue = 27225, heur = -9.0, depth = 9
iter = 19048, queue = 27225, heur = -9.0, depth = 9
iter = 19049, queue = 27227, heur = -9.0, depth = 9
iter = 19050, queue = 27227, heur = -9.0, depth = 9
iter = 19051, queue = 27229, heur = -9.0, depth = 9
iter = 19052, queue = 27230, heur = -9.0, depth = 9
iter = 19053, queue = 27229, heur = -9.0, depth = 9
iter = 19054, queue = 27229, heur = -9.0, depth = 10
iter = 19055, queue = 27230, heur = -9.0, depth = 9
```

```
iter = 19056, queue = 27233, heur = -9.0, depth = 9
iter = 19057, queue = 27235, heur = -9.0, depth = 9
iter = 19058, queue = 27236, heur = -9.0, depth = 9
iter = 19059, queue = 27235, heur = -9.0, depth = 9
iter = 19060, queue = 27236, heur = -9.0, depth = 9
iter = 19061, queue = 27238, heur = -9.0, depth = 10
iter = 19062, queue = 27239, heur = -9.0, depth = 9
iter = 19063, queue = 27242, heur = -9.0, depth = 9
iter = 19064, queue = 27243, heur = -9.0, depth = 10
iter = 19065, queue = 27243, heur = -9.0, depth = 9
iter = 19066, queue = 27245, heur = -9.0, depth = 9
iter = 19067, queue = 27247, heur = -9.0, depth = 9
iter = 19068, queue = 27248, heur = -9.0, depth = 9
iter = 19069, queue = 27250, heur = -9.0, depth = 9
iter = 19070, queue = 27251, heur = -9.0, depth = 9
iter = 19071, queue = 27252, heur = -9.0, depth = 9
iter = 19072, queue = 27253, heur = -9.0, depth = 9
iter = 19073, queue = 27255, heur = -9.0, depth = 9
iter = 19074, queue = 27258, heur = -9.0, depth = 9
iter = 19075, queue = 27259, heur = -9.0, depth = 9
iter = 19076, queue = 27260, heur = -9.0, depth = 9
iter = 19077, queue = 27263, heur = -9.0, depth = 9
iter = 19078, queue = 27265, heur = -9.0, depth = 9
iter = 19079, queue = 27267, heur = -9.0, depth = 9
iter = 19080, queue = 27268, heur = -9.0, depth = 9
iter = 19081, queue = 27267, heur = -9.0, depth = 9
iter = 19082, queue = 27268, heur = -9.0, depth = 9
iter = 19083, queue = 27268, heur = -9.0, depth = 9
iter = 19084, queue = 27267, heur = -9.0, depth = 9
iter = 19085, queue = 27267, heur = -9.0, depth = 9
iter = 19086, queue = 27270, heur = -9.0, depth = 11
iter = 19087, queue = 27272, heur = -9.0, depth = 9
iter = 19088, queue = 27271, heur = -9.0, depth = 11
iter = 19089, queue = 27274, heur = -9.0, depth = 11
iter = 19090, queue = 27277, heur = -9.0, depth = 9
iter = 19091, queue = 27277, heur = -9.0, depth = 9
iter = 19092, queue = 27277, heur = -9.0, depth = 9
iter = 19093, queue = 27278, heur = -9.0, depth = 9
iter = 19094, queue = 27281, heur = -9.0, depth = 9
iter = 19095, queue = 27284, heur = -9.0, depth = 9
iter = 19096, queue = 27285, heur = -9.0, depth = 9
iter = 19097, queue = 27288, heur = -9.0, depth = 10
iter = 19098, queue = 27289, heur = -9.0, depth = 10
iter = 19099, queue = 27291, heur = -9.0, depth = 9
iter = 19100, queue = 27292, heur = -9.0, depth = 9
iter = 19101, queue = 27295, heur = -9.0, depth = 9
iter = 19102, queue = 27296, heur = -9.0, depth = 9
iter = 19103, queue = 27297, heur = -9.0, depth = 9
iter = 19104, queue = 27296, heur = -9.0, depth = 9
iter = 19105, queue = 27298, heur = -9.0, depth = 9
iter = 19106, queue = 27299, heur = -9.0, depth = 10
iter = 19107, queue = 27300, heur = -9.0, depth = 10
iter = 19108, queue = 27303, heur = -9.0, depth = 10
iter = 19109, queue = 27306, heur = -9.0, depth = 9
iter = 19110, queue = 27307, heur = -9.0, depth = 9
iter = 19111, queue = 27307, heur = -9.0, depth = 9
iter = 19112, queue = 27306, heur = -9.0, depth = 9
iter = 19113, queue = 27309, heur = -9.0, depth = 9
iter = 19114, queue = 27311, heur = -9.0, depth = 9
```

```
iter = 19115, queue = 27312, heur = -9.0, depth = 9
iter = 19116, queue = 27311, heur = -9.0, depth = 9
iter = 19117, queue = 27312, heur = -9.0, depth = 9
iter = 19118, queue = 27313, heur = -9.0, depth = 9
iter = 19119, queue = 27314, heur = -9.0, depth = 9
iter = 19120, queue = 27315, heur = -9.0, depth = 10
iter = 19121, queue = 27318, heur = -9.0, depth = 9
iter = 19122, queue = 27319, heur = -9.0, depth = 9
iter = 19123, queue = 27320, heur = -9.0, depth = 9
iter = 19124, queue = 27323, heur = -9.0, depth = 9
iter = 19125, queue = 27326, heur = -9.0, depth = 9
iter = 19126, queue = 27327, heur = -9.0, depth = 9
iter = 19127, queue = 27330, heur = -9.0, depth = 9
iter = 19128, queue = 27331, heur = -9.0, depth = 9
iter = 19129, queue = 27332, heur = -9.0, depth = 9
iter = 19130, queue = 27333, heur = -9.0, depth = 9
iter = 19131, queue = 27332, heur = -9.0, depth = 9
iter = 19132, queue = 27333, heur = -9.0, depth = 9
iter = 19133, queue = 27335, heur = -9.0, depth = 9
iter = 19134, queue = 27335, heur = -9.0, depth = 9
iter = 19135, queue = 27336, heur = -9.0, depth = 9
iter = 19136, queue = 27337, heur = -9.0, depth = 9
iter = 19137, queue = 27340, heur = -9.0, depth = 9
iter = 19138, queue = 27339, heur = -9.0, depth = 9
iter = 19139, queue = 27339, heur = -9.0, depth = 9
iter = 19140, queue = 27340, heur = -9.0, depth = 9
iter = 19141, queue = 27340, heur = -9.0, depth = 9
iter = 19142, queue = 27341, heur = -9.0, depth = 9
iter = 19143, queue = 27340, heur = -9.0, depth = 9
iter = 19144, queue = 27342, heur = -9.0, depth = 9
iter = 19145, queue = 27342, heur = -9.0, depth = 9
iter = 19146, queue = 27343, heur = -9.0, depth = 9
iter = 19147, queue = 27344, heur = -9.0, depth = 9
iter = 19148, queue = 27344, heur = -9.0, depth = 9
iter = 19149, queue = 27345, heur = -9.0, depth = 9
iter = 19150, queue = 27346, heur = -9.0, depth = 9
iter = 19151, queue = 27347, heur = -9.0, depth = 9
iter = 19152, queue = 27347, heur = -9.0, depth = 9
iter = 19153, queue = 27348, heur = -9.0, depth = 9
iter = 19154, queue = 27348, heur = -9.0, depth = 9
iter = 19155, queue = 27349, heur = -9.0, depth = 9
iter = 19156, queue = 27352, heur = -9.0, depth = 9
iter = 19157, queue = 27353, heur = -9.0, depth = 9
iter = 19158, queue = 27356, heur = -9.0, depth = 9
iter = 19159, queue = 27355, heur = -9.0, depth = 9
iter = 19160, queue = 27358, heur = -9.0, depth = 9
iter = 19161, queue = 27361, heur = -9.0, depth = 9
iter = 19162, queue = 27361, heur = -9.0, depth = 9
iter = 19163, queue = 27362, heur = -9.0, depth = 9
iter = 19164, queue = 27363, heur = -9.0, depth = 9
iter = 19165, queue = 27366, heur = -9.0, depth = 9
iter = 19166, queue = 27367, heur = -9.0, depth = 9
iter = 19167, queue = 27366, heur = -9.0, depth = 9
iter = 19168, queue = 27367, heur = -9.0, depth = 9
iter = 19169, queue = 27368, heur = -9.0, depth = 9
iter = 19170, queue = 27370, heur = -9.0, depth = 9
iter = 19171, queue = 27373, heur = -9.0, depth = 10
iter = 19172, queue = 27372, heur = -9.0, depth = 10
iter = 19173, queue = 27371, heur = -9.0, depth = 9
```

```
iter = 19174, queue = 27374, heur = -9.0, depth = 9
iter = 19175, queue = 27376, heur = -9.0, depth = 9
iter = 19176, queue = 27377, heur = -9.0, depth = 9
iter = 19177, queue = 27378, heur = -9.0, depth = 9
iter = 19178, queue = 27377, heur = -9.0, depth = 9
iter = 19179, queue = 27378, heur = -9.0, depth = 9
iter = 19180, queue = 27380, heur = -9.0, depth = 9
iter = 19181, queue = 27381, heur = -9.0, depth = 9
iter = 19182, queue = 27381, heur = -9.0, depth = 9
iter = 19183, queue = 27382, heur = -9.0, depth = 9
iter = 19184, queue = 27385, heur = -9.0, depth = 9
iter = 19185, queue = 27386, heur = -9.0, depth = 9
iter = 19186, queue = 27389, heur = -9.0, depth = 9
iter = 19187, queue = 27390, heur = -9.0, depth = 9
iter = 19188, queue = 27391, heur = -9.0, depth = 9
iter = 19189, queue = 27392, heur = -9.0, depth = 9
iter = 19190, queue = 27393, heur = -9.0, depth = 9
iter = 19191, queue = 27395, heur = -9.0, depth = 9
iter = 19192, queue = 27396, heur = -9.0, depth = 9
iter = 19193, queue = 27399, heur = -9.0, depth = 9
iter = 19194, queue = 27400, heur = -9.0, depth = 9
iter = 19195, queue = 27403, heur = -9.0, depth = 9
iter = 19196, queue = 27406, heur = -9.0, depth = 9
iter = 19197, queue = 27407, heur = -9.0, depth = 9
iter = 19198, queue = 27407, heur = -9.0, depth = 9
iter = 19199, queue = 27409, heur = -9.0, depth = 9
iter = 19200, queue = 27408, heur = -9.0, depth = 9
iter = 19201, queue = 27410, heur = -9.0, depth = 9
iter = 19202, queue = 27409, heur = -9.0, depth = 9
iter = 19203, queue = 27410, heur = -9.0, depth = 9
iter = 19204, queue = 27411, heur = -9.0, depth = 9
iter = 19205, queue = 27412, heur = -9.0, depth = 9
iter = 19206, queue = 27413, heur = -9.0, depth = 9
iter = 19207, queue = 27414, heur = -9.0, depth = 9
iter = 19208, queue = 27413, heur = -9.0, depth = 9
iter = 19209, queue = 27412, heur = -9.0, depth = 9
iter = 19210, queue = 27413, heur = -9.0, depth = 9
iter = 19211, queue = 27416, heur = -9.0, depth = 9
iter = 19212, queue = 27416, heur = -9.0, depth = 9
iter = 19213, queue = 27417, heur = -9.0, depth = 9
iter = 19214, queue = 27419, heur = -9.0, depth = 9
iter = 19215, queue = 27421, heur = -9.0, depth = 9
iter = 19216, queue = 27421, heur = -9.0, depth = 9
iter = 19217, queue = 27422, heur = -9.0, depth = 9
iter = 19218, queue = 27425, heur = -9.0, depth = 9
iter = 19219, queue = 27428, heur = -9.0, depth = 9
iter = 19220, queue = 27429, heur = -9.0, depth = 9
iter = 19221, queue = 27430, heur = -9.0, depth = 9
iter = 19222, queue = 27430, heur = -9.0, depth = 9
iter = 19223, queue = 27431, heur = -9.0, depth = 9
iter = 19224, queue = 27432, heur = -9.0, depth = 9
iter = 19225, queue = 27431, heur = -9.0, depth = 9
iter = 19226, queue = 27430, heur = -9.0, depth = 9
iter = 19227, queue = 27431, heur = -9.0, depth = 9
iter = 19228, queue = 27433, heur = -9.0, depth = 9
iter = 19229, queue = 27432, heur = -9.0, depth = 9
iter = 19230, queue = 27435, heur = -9.0, depth = 9
iter = 19231, queue = 27436, heur = -9.0, depth = 9
iter = 19232, queue = 27437, heur = -9.0, depth = 9
```

```
iter = 19233, queue = 27438, heur = -9.0, depth = 9
iter = 19234, queue = 27439, heur = -9.0, depth = 9
iter = 19235, queue = 27440, heur = -9.0, depth = 9
iter = 19236, queue = 27441, heur = -9.0, depth = 9
iter = 19237, queue = 27440, heur = -9.0, depth = 9
iter = 19238, queue = 27442, heur = -9.0, depth = 9
iter = 19239, queue = 27443, heur = -9.0, depth = 9
iter = 19240, queue = 27444, heur = -9.0, depth = 9
iter = 19241, queue = 27445, heur = -9.0, depth = 9
iter = 19242, queue = 27444, heur = -9.0, depth = 9
iter = 19243, queue = 27444, heur = -9.0, depth = 9
iter = 19244, queue = 27443, heur = -9.0, depth = 9
iter = 19245, queue = 27445, heur = -9.0, depth = 9
iter = 19246, queue = 27444, heur = -9.0, depth = 9
iter = 19247, queue = 27445, heur = -9.0, depth = 9
iter = 19248, queue = 27446, heur = -9.0, depth = 9
iter = 19249, queue = 27446, heur = -9.0, depth = 9
iter = 19250, queue = 27447, heur = -9.0, depth = 9
iter = 19251, queue = 27447, heur = -9.0, depth = 9
iter = 19252, queue = 27448, heur = -9.0, depth = 9
iter = 19253, queue = 27449, heur = -9.0, depth = 9
iter = 19254, queue = 27452, heur = -9.0, depth = 10
iter = 19255, queue = 27453, heur = -9.0, depth = 9
iter = 19256, queue = 27454, heur = -9.0, depth = 9
iter = 19257, queue = 27454, heur = -9.0, depth = 9
iter = 19258, queue = 27455, heur = -9.0, depth = 10
iter = 19259, queue = 27456, heur = -9.0, depth = 10
iter = 19260, queue = 27459, heur = -9.0, depth = 9
iter = 19261, queue = 27462, heur = -9.0, depth = 9
iter = 19262, queue = 27463, heur = -9.0, depth = 9
iter = 19263, queue = 27464, heur = -9.0, depth = 9
iter = 19264, queue = 27466, heur = -9.0, depth = 9
iter = 19265, queue = 27467, heur = -9.0, depth = 9
iter = 19266, queue = 27467, heur = -9.0, depth = 9
iter = 19267, queue = 27468, heur = -9.0, depth = 9
iter = 19268, queue = 27468, heur = -9.0, depth = 9
iter = 19269, queue = 27469, heur = -9.0, depth = 9
iter = 19270, queue = 27470, heur = -9.0, depth = 9
iter = 19271, queue = 27473, heur = -9.0, depth = 9
iter = 19272, queue = 27476, heur = -9.0, depth = 9
iter = 19273, queue = 27479, heur = -9.0, depth = 9
iter = 19274, queue = 27479, heur = -9.0, depth = 9
iter = 19275, queue = 27479, heur = -9.0, depth = 9
iter = 19276, queue = 27480, heur = -9.0, depth = 9
iter = 19277, queue = 27479, heur = -9.0, depth = 9
iter = 19278, queue = 27480, heur = -9.0, depth = 9
iter = 19279, queue = 27481, heur = -9.0, depth = 9
iter = 19280, queue = 27484, heur = -9.0, depth = 9
iter = 19281, queue = 27485, heur = -9.0, depth = 9
iter = 19282, queue = 27486, heur = -9.0, depth = 9
iter = 19283, queue = 27485, heur = -9.0, depth = 9
iter = 19284, queue = 27487, heur = -9.0, depth = 9
iter = 19285, queue = 27488, heur = -9.0, depth = 9
iter = 19286, queue = 27491, heur = -9.0, depth = 9
iter = 19287, queue = 27494, heur = -9.0, depth = 9
iter = 19288, queue = 27493, heur = -9.0, depth = 9
iter = 19289, queue = 27495, heur = -9.0, depth = 9
iter = 19290, queue = 27496, heur = -9.0, depth = 9
iter = 19291, queue = 27499, heur = -9.0, depth = 9
```

```
iter = 19292, queue = 27500, heur = -9.0, depth = 9
iter = 19293, queue = 27501, heur = -9.0, depth = 9
iter = 19294, queue = 27502, heur = -9.0, depth = 9
iter = 19295, queue = 27501, heur = -9.0, depth = 9
iter = 19296, queue = 27500, heur = -9.0, depth = 9
iter = 19297, queue = 27501, heur = -9.0, depth = 9
iter = 19298, queue = 27501, heur = -9.0, depth = 9
iter = 19299, queue = 27504, heur = -9.0, depth = 9
iter = 19300, queue = 27507, heur = -9.0, depth = 9
iter = 19301, queue = 27507, heur = -9.0, depth = 10
iter = 19302, queue = 27510, heur = -9.0, depth = 9
iter = 19303, queue = 27511, heur = -9.0, depth = 9
iter = 19304, queue = 27511, heur = -9.0, depth = 9
iter = 19305, queue = 27510, heur = -9.0, depth = 9
iter = 19306, queue = 27509, heur = -9.0, depth = 9
iter = 19307, queue = 27510, heur = -9.0, depth = 9
iter = 19308, queue = 27509, heur = -9.0, depth = 9
iter = 19309, queue = 27511, heur = -9.0, depth = 9
iter = 19310, queue = 27512, heur = -9.0, depth = 9
iter = 19311, queue = 27515, heur = -9.0, depth = 9
iter = 19312, queue = 27517, heur = -9.0, depth = 9
iter = 19313, queue = 27518, heur = -9.0, depth = 9
iter = 19314, queue = 27519, heur = -9.0, depth = 10
iter = 19315, queue = 27521, heur = -9.0, depth = 9
iter = 19316, queue = 27522, heur = -9.0, depth = 10
iter = 19317, queue = 27524, heur = -9.0, depth = 10
iter = 19318, queue = 27527, heur = -9.0, depth = 10
iter = 19319, queue = 27530, heur = -9.0, depth = 10
iter = 19320, queue = 27533, heur = -9.0, depth = 9
iter = 19321, queue = 27534, heur = -9.0, depth = 9
iter = 19322, queue = 27535, heur = -9.0, depth = 9
iter = 19323, queue = 27536, heur = -9.0, depth = 9
iter = 19324, queue = 27535, heur = -9.0, depth = 9
iter = 19325, queue = 27536, heur = -9.0, depth = 9
iter = 19326, queue = 27537, heur = -9.0, depth = 9
iter = 19327, queue = 27538, heur = -9.0, depth = 9
iter = 19328, queue = 27540, heur = -9.0, depth = 9
iter = 19329, queue = 27539, heur = -9.0, depth = 9
iter = 19330, queue = 27540, heur = -9.0, depth = 9
iter = 19331, queue = 27542, heur = -9.0, depth = 9
iter = 19332, queue = 27543, heur = -9.0, depth = 9
iter = 19333, queue = 27545, heur = -9.0, depth = 9
iter = 19334, queue = 27545, heur = -9.0, depth = 9
iter = 19335, queue = 27548, heur = -9.0, depth = 9
iter = 19336, queue = 27549, heur = -9.0, depth = 9
iter = 19337, queue = 27551, heur = -9.0, depth = 9
iter = 19338, queue = 27551, heur = -9.0, depth = 9
iter = 19339, queue = 27550, heur = -9.0, depth = 9
iter = 19340, queue = 27551, heur = -9.0, depth = 9
iter = 19341, queue = 27550, heur = -9.0, depth = 9
iter = 19342, queue = 27550, heur = -9.0, depth = 9
iter = 19343, queue = 27551, heur = -9.0, depth = 9
iter = 19344, queue = 27552, heur = -9.0, depth = 9
iter = 19345, queue = 27551, heur = -9.0, depth = 9
iter = 19346, queue = 27552, heur = -9.0, depth = 9
iter = 19347, queue = 27553, heur = -9.0, depth = 9
iter = 19348, queue = 27555, heur = -9.0, depth = 9
iter = 19349, queue = 27556, heur = -9.0, depth = 9
iter = 19350, queue = 27558, heur = -9.0, depth = 9
```

```
iter = 19351, queue = 27559, heur = -9.0, depth = 9
iter = 19352, queue = 27558, heur = -9.0, depth = 9
iter = 19353, queue = 27559, heur = -9.0, depth = 9
iter = 19354, queue = 27561, heur = -9.0, depth = 9
iter = 19355, queue = 27563, heur = -9.0, depth = 9
iter = 19356, queue = 27564, heur = -9.0, depth = 9
iter = 19357, queue = 27565, heur = -9.0, depth = 9
iter = 19358, queue = 27567, heur = -9.0, depth = 9
iter = 19359, queue = 27570, heur = -9.0, depth = 9
iter = 19360, queue = 27571, heur = -9.0, depth = 9
iter = 19361, queue = 27572, heur = -9.0, depth = 9
iter = 19362, queue = 27573, heur = -9.0, depth = 9
iter = 19363, queue = 27575, heur = -9.0, depth = 9
iter = 19364, queue = 27576, heur = -9.0, depth = 9
iter = 19365, queue = 27575, heur = -9.0, depth = 9
iter = 19366, queue = 27576, heur = -9.0, depth = 9
iter = 19367, queue = 27578, heur = -9.0, depth = 9
iter = 19368, queue = 27579, heur = -9.0, depth = 9
iter = 19369, queue = 27580, heur = -9.0, depth = 9
iter = 19370, queue = 27581, heur = -9.0, depth = 9
iter = 19371, queue = 27582, heur = -9.0, depth = 9
iter = 19372, queue = 27585, heur = -9.0, depth = 9
iter = 19373, queue = 27586, heur = -9.0, depth = 9
iter = 19374, queue = 27585, heur = -9.0, depth = 9
iter = 19375, queue = 27588, heur = -9.0, depth = 9
iter = 19376, queue = 27589, heur = -9.0, depth = 9
iter = 19377, queue = 27588, heur = -9.0, depth = 9
iter = 19378, queue = 27589, heur = -9.0, depth = 9
iter = 19379, queue = 27590, heur = -9.0, depth = 10
iter = 19380, queue = 27589, heur = -9.0, depth = 9
iter = 19381, queue = 27589, heur = -9.0, depth = 9
iter = 19382, queue = 27590, heur = -9.0, depth = 9
iter = 19383, queue = 27591, heur = -9.0, depth = 9
iter = 19384, queue = 27592, heur = -9.0, depth = 9
iter = 19385, queue = 27591, heur = -9.0, depth = 9
iter = 19386, queue = 27594, heur = -9.0, depth = 9
iter = 19387, queue = 27596, heur = -9.0, depth = 9
iter = 19388, queue = 27595, heur = -9.0, depth = 9
iter = 19389, queue = 27596, heur = -9.0, depth = 9
iter = 19390, queue = 27597, heur = -9.0, depth = 9
iter = 19391, queue = 27598, heur = -9.0, depth = 9
iter = 19392, queue = 27601, heur = -9.0, depth = 9
iter = 19393, queue = 27602, heur = -9.0, depth = 9
iter = 19394, queue = 27603, heur = -9.0, depth = 9
iter = 19395, queue = 27606, heur = -9.0, depth = 9
iter = 19396, queue = 27605, heur = -9.0, depth = 9
iter = 19397, queue = 27605, heur = -9.0, depth = 9
iter = 19398, queue = 27606, heur = -9.0, depth = 9
iter = 19399, queue = 27607, heur = -9.0, depth = 9
iter = 19400, queue = 27606, heur = -9.0, depth = 9
iter = 19401, queue = 27607, heur = -9.0, depth = 9
iter = 19402, queue = 27607, heur = -9.0, depth = 9
iter = 19403, queue = 27608, heur = -9.0, depth = 9
iter = 19404, queue = 27609, heur = -9.0, depth = 9
iter = 19405, queue = 27610, heur = -9.0, depth = 9
iter = 19406, queue = 27609, heur = -9.0, depth = 9
iter = 19407, queue = 27610, heur = -9.0, depth = 9
iter = 19408, queue = 27611, heur = -9.0, depth = 9
iter = 19409, queue = 27612, heur = -9.0, depth = 9
```

```
iter = 19410, queue = 27613, heur = -9.0, depth = 9
iter = 19411, queue = 27616, heur = -9.0, depth = 9
iter = 19412, queue = 27617, heur = -9.0, depth = 9
iter = 19413, queue = 27618, heur = -9.0, depth = 9
iter = 19414, queue = 27619, heur = -9.0, depth = 9
iter = 19415, queue = 27619, heur = -9.0, depth = 9
iter = 19416, queue = 27620, heur = -9.0, depth = 9
iter = 19417, queue = 27621, heur = -9.0, depth = 9
iter = 19418, queue = 27622, heur = -9.0, depth = 9
iter = 19419, queue = 27624, heur = -9.0, depth = 9
iter = 19420, queue = 27627, heur = -9.0, depth = 9
iter = 19421, queue = 27628, heur = -9.0, depth = 10
iter = 19422, queue = 27627, heur = -9.0, depth = 9
iter = 19423, queue = 27627, heur = -9.0, depth = 9
iter = 19424, queue = 27627, heur = -9.0, depth = 9
iter = 19425, queue = 27627, heur = -9.0, depth = 9
iter = 19426, queue = 27630, heur = -9.0, depth = 9
iter = 19427, queue = 27631, heur = -9.0, depth = 9
iter = 19428, queue = 27633, heur = -9.0, depth = 9
iter = 19429, queue = 27634, heur = -9.0, depth = 9
iter = 19430, queue = 27635, heur = -9.0, depth = 9
iter = 19431, queue = 27636, heur = -9.0, depth = 9
iter = 19432, queue = 27636, heur = -9.0, depth = 9
iter = 19433, queue = 27636, heur = -9.0, depth = 9
iter = 19434, queue = 27637, heur = -9.0, depth = 9
iter = 19435, queue = 27640, heur = -9.0, depth = 9
iter = 19436, queue = 27641, heur = -9.0, depth = 9
iter = 19437, queue = 27644, heur = -9.0, depth = 9
iter = 19438, queue = 27645, heur = -9.0, depth = 9
iter = 19439, queue = 27646, heur = -9.0, depth = 9
iter = 19440, queue = 27647, heur = -9.0, depth = 9
iter = 19441, queue = 27646, heur = -9.0, depth = 9
iter = 19442, queue = 27649, heur = -9.0, depth = 9
iter = 19443, queue = 27651, heur = -9.0, depth = 9
iter = 19444, queue = 27651, heur = -9.0, depth = 9
iter = 19445, queue = 27650, heur = -9.0, depth = 9
iter = 19446, queue = 27652, heur = -9.0, depth = 9
iter = 19447, queue = 27655, heur = -9.0, depth = 9
iter = 19448, queue = 27656, heur = -9.0, depth = 9
iter = 19449, queue = 27657, heur = -9.0, depth = 9
iter = 19450, queue = 27658, heur = -9.0, depth = 9
iter = 19451, queue = 27659, heur = -9.0, depth = 9
iter = 19452, queue = 27660, heur = -9.0, depth = 9
iter = 19453, queue = 27660, heur = -9.0, depth = 9
iter = 19454, queue = 27661, heur = -9.0, depth = 9
iter = 19455, queue = 27664, heur = -9.0, depth = 11
iter = 19456, queue = 27666, heur = -9.0, depth = 9
iter = 19457, queue = 27669, heur = -9.0, depth = 9
iter = 19458, queue = 27668, heur = -9.0, depth = 9
iter = 19459, queue = 27670, heur = -9.0, depth = 9
iter = 19460, queue = 27672, heur = -9.0, depth = 9
iter = 19461, queue = 27675, heur = -9.0, depth = 9
iter = 19462, queue = 27678, heur = -9.0, depth = 9
iter = 19463, queue = 27681, heur = -9.0, depth = 9
iter = 19464, queue = 27682, heur = -9.0, depth = 9
iter = 19465, queue = 27684, heur = -9.0, depth = 9
iter = 19466, queue = 27683, heur = -9.0, depth = 9
iter = 19467, queue = 27686, heur = -9.0, depth = 9
iter = 19468, queue = 27687, heur = -9.0, depth = 9
```

```
iter = 19469, queue = 27686, heur = -9.0, depth = 9
iter = 19470, queue = 27687, heur = -9.0, depth = 9
iter = 19471, queue = 27688, heur = -9.0, depth = 9
iter = 19472, queue = 27690, heur = -9.0, depth = 9
iter = 19473, queue = 27693, heur = -9.0, depth = 9
iter = 19474, queue = 27695, heur = -9.0, depth = 9
iter = 19475, queue = 27698, heur = -9.0, depth = 9
iter = 19476, queue = 27701, heur = -9.0, depth = 9
iter = 19477, queue = 27703, heur = -9.0, depth = 9
iter = 19478, queue = 27702, heur = -9.0, depth = 9
iter = 19479, queue = 27704, heur = -9.0, depth = 9
iter = 19480, queue = 27705, heur = -9.0, depth = 9
iter = 19481, queue = 27706, heur = -9.0, depth = 9
iter = 19482, queue = 27707, heur = -9.0, depth = 9
iter = 19483, queue = 27708, heur = -9.0, depth = 9
iter = 19484, queue = 27709, heur = -9.0, depth = 9
iter = 19485, queue = 27711, heur = -9.0, depth = 9
iter = 19486, queue = 27712, heur = -9.0, depth = 9
iter = 19487, queue = 27713, heur = -9.0, depth = 9
iter = 19488, queue = 27715, heur = -9.0, depth = 10
iter = 19489, queue = 27718, heur = -9.0, depth = 9
iter = 19490, queue = 27717, heur = -9.0, depth = 9
iter = 19491, queue = 27718, heur = -9.0, depth = 9
iter = 19492, queue = 27719, heur = -9.0, depth = 9
iter = 19493, queue = 27719, heur = -9.0, depth = 9
iter = 19494, queue = 27720, heur = -9.0, depth = 9
iter = 19495, queue = 27723, heur = -9.0, depth = 9
iter = 19496, queue = 27724, heur = -9.0, depth = 9
iter = 19497, queue = 27723, heur = -9.0, depth = 9
iter = 19498, queue = 27724, heur = -9.0, depth = 9
iter = 19499, queue = 27726, heur = -9.0, depth = 10
iter = 19500, queue = 27725, heur = -9.0, depth = 9
iter = 19501, queue = 27728, heur = -9.0, depth = 9
iter = 19502, queue = 27731, heur = -9.0, depth = 9
iter = 19503, queue = 27734, heur = -9.0, depth = 9
iter = 19504, queue = 27737, heur = -9.0, depth = 9
iter = 19505, queue = 27739, heur = -9.0, depth = 9
iter = 19506, queue = 27741, heur = -9.0, depth = 9
iter = 19507, queue = 27742, heur = -9.0, depth = 9
iter = 19508, queue = 27743, heur = -9.0, depth = 9
iter = 19509, queue = 27745, heur = -9.0, depth = 9
iter = 19510, queue = 27746, heur = -9.0, depth = 9
iter = 19511, queue = 27747, heur = -9.0, depth = 9
iter = 19512, queue = 27750, heur = -9.0, depth = 9
iter = 19513, queue = 27751, heur = -9.0, depth = 9
iter = 19514, queue = 27753, heur = -9.0, depth = 9
iter = 19515, queue = 27753, heur = -9.0, depth = 9
iter = 19516, queue = 27754, heur = -9.0, depth = 9
iter = 19517, queue = 27755, heur = -9.0, depth = 9
iter = 19518, queue = 27754, heur = -9.0, depth = 9
iter = 19519, queue = 27753, heur = -9.0, depth = 9
iter = 19520, queue = 27752, heur = -9.0, depth = 9
iter = 19521, queue = 27752, heur = -9.0, depth = 9
iter = 19522, queue = 27751, heur = -9.0, depth = 9
iter = 19523, queue = 27753, heur = -9.0, depth = 9
iter = 19524, queue = 27756, heur = -9.0, depth = 9
iter = 19525, queue = 27755, heur = -9.0, depth = 9
iter = 19526, queue = 27756, heur = -9.0, depth = 9
iter = 19527, queue = 27756, heur = -9.0, depth = 10
```

```
iter = 19528, queue = 27758, heur = -9.0, depth = 9
iter = 19529, queue = 27759, heur = -9.0, depth = 9
iter = 19530, queue = 27760, heur = -9.0, depth = 9
iter = 19531, queue = 27760, heur = -9.0, depth = 9
iter = 19532, queue = 27762, heur = -9.0, depth = 9
iter = 19533, queue = 27765, heur = -9.0, depth = 9
iter = 19534, queue = 27768, heur = -9.0, depth = 9
iter = 19535, queue = 27767, heur = -9.0, depth = 9
iter = 19536, queue = 27768, heur = -9.0, depth = 9
iter = 19537, queue = 27767, heur = -9.0, depth = 10
iter = 19538, queue = 27766, heur = -9.0, depth = 9
iter = 19539, queue = 27766, heur = -9.0, depth = 9
iter = 19540, queue = 27766, heur = -9.0, depth = 9
iter = 19541, queue = 27767, heur = -9.0, depth = 9
iter = 19542, queue = 27768, heur = -9.0, depth = 9
iter = 19543, queue = 27769, heur = -9.0, depth = 9
iter = 19544, queue = 27770, heur = -9.0, depth = 9
iter = 19545, queue = 27773, heur = -9.0, depth = 9
iter = 19546, queue = 27772, heur = -9.0, depth = 9
iter = 19547, queue = 27773, heur = -9.0, depth = 9
iter = 19548, queue = 27773, heur = -9.0, depth = 9
iter = 19549, queue = 27776, heur = -9.0, depth = 9
iter = 19550, queue = 27778, heur = -9.0, depth = 9
iter = 19551, queue = 27779, heur = -9.0, depth = 9
iter = 19552, queue = 27779, heur = -9.0, depth = 9
iter = 19553, queue = 27780, heur = -9.0, depth = 9
iter = 19554, queue = 27781, heur = -9.0, depth = 9
iter = 19555, queue = 27782, heur = -9.0, depth = 9
iter = 19556, queue = 27782, heur = -9.0, depth = 9
iter = 19557, queue = 27781, heur = -9.0, depth = 9
iter = 19558, queue = 27781, heur = -9.0, depth = 9
iter = 19559, queue = 27782, heur = -9.0, depth = 9
iter = 19560, queue = 27784, heur = -9.0, depth = 9
iter = 19561, queue = 27783, heur = -9.0, depth = 9
iter = 19562, queue = 27785, heur = -9.0, depth = 10
iter = 19563, queue = 27788, heur = -9.0, depth = 9
iter = 19564, queue = 27787, heur = -9.0, depth = 11
iter = 19565, queue = 27790, heur = -9.0, depth = 10
iter = 19566, queue = 27791, heur = -9.0, depth = 9
iter = 19567, queue = 27792, heur = -9.0, depth = 9
iter = 19568, queue = 27795, heur = -9.0, depth = 9
iter = 19569, queue = 27796, heur = -9.0, depth = 9
iter = 19570, queue = 27799, heur = -9.0, depth = 9
iter = 19571, queue = 27800, heur = -9.0, depth = 9
iter = 19572, queue = 27801, heur = -9.0, depth = 9
iter = 19573, queue = 27802, heur = -9.0, depth = 9
iter = 19574, queue = 27801, heur = -9.0, depth = 9
iter = 19575, queue = 27800, heur = -9.0, depth = 9
iter = 19576, queue = 27802, heur = -9.0, depth = 9
iter = 19577, queue = 27803, heur = -9.0, depth = 9
iter = 19578, queue = 27803, heur = -9.0, depth = 9
iter = 19579, queue = 27803, heur = -9.0, depth = 9
iter = 19580, queue = 27804, heur = -9.0, depth = 9
iter = 19581, queue = 27807, heur = -9.0, depth = 9
iter = 19582, queue = 27807, heur = -9.0, depth = 9
iter = 19583, queue = 27806, heur = -9.0, depth = 9
iter = 19584, queue = 27809, heur = -9.0, depth = 9
iter = 19585, queue = 27810, heur = -9.0, depth = 9
iter = 19586, queue = 27811, heur = -9.0, depth = 9
```

```
iter = 19587, queue = 27812, heur = -9.0, depth = 9
iter = 19588, queue = 27814, heur = -9.0, depth = 9
iter = 19589, queue = 27815, heur = -9.0, depth = 9
iter = 19590, queue = 27818, heur = -9.0, depth = 9
iter = 19591, queue = 27819, heur = -9.0, depth = 9
iter = 19592, queue = 27818, heur = -9.0, depth = 9
iter = 19593, queue = 27819, heur = -9.0, depth = 9
iter = 19594, queue = 27820, heur = -9.0, depth = 9
iter = 19595, queue = 27821, heur = -9.0, depth = 9
iter = 19596, queue = 27823, heur = -9.0, depth = 9
iter = 19597, queue = 27824, heur = -9.0, depth = 9
iter = 19598, queue = 27825, heur = -9.0, depth = 9
iter = 19599, queue = 27828, heur = -9.0, depth = 9
iter = 19600, queue = 27829, heur = -9.0, depth = 9
iter = 19601, queue = 27830, heur = -9.0, depth = 9
iter = 19602, queue = 27831, heur = -9.0, depth = 9
iter = 19603, queue = 27834, heur = -9.0, depth = 9
iter = 19604, queue = 27835, heur = -9.0, depth = 9
iter = 19605, queue = 27836, heur = -9.0, depth = 9
iter = 19606, queue = 27837, heur = -9.0, depth = 9
iter = 19607, queue = 27838, heur = -9.0, depth = 9
iter = 19608, queue = 27840, heur = -9.0, depth = 9
iter = 19609, queue = 27843, heur = -9.0, depth = 9
iter = 19610, queue = 27846, heur = -9.0, depth = 9
iter = 19611, queue = 27847, heur = -9.0, depth = 9
iter = 19612, queue = 27848, heur = -9.0, depth = 9
iter = 19613, queue = 27847, heur = -9.0, depth = 9
iter = 19614, queue = 27847, heur = -9.0, depth = 9
iter = 19615, queue = 27848, heur = -9.0, depth = 9
iter = 19616, queue = 27849, heur = -9.0, depth = 9
iter = 19617, queue = 27850, heur = -9.0, depth = 9
iter = 19618, queue = 27853, heur = -9.0, depth = 9
iter = 19619, queue = 27854, heur = -9.0, depth = 9
iter = 19620, queue = 27857, heur = -9.0, depth = 9
iter = 19621, queue = 27858, heur = -9.0, depth = 9
iter = 19622, queue = 27858, heur = -9.0, depth = 9
iter = 19623, queue = 27860, heur = -9.0, depth = 9
iter = 19624, queue = 27861, heur = -9.0, depth = 9
iter = 19625, queue = 27863, heur = -9.0, depth = 9
iter = 19626, queue = 27862, heur = -9.0, depth = 9
iter = 19627, queue = 27865, heur = -9.0, depth = 9
iter = 19628, queue = 27866, heur = -9.0, depth = 9
iter = 19629, queue = 27869, heur = -9.0, depth = 9
iter = 19630, queue = 27869, heur = -9.0, depth = 9
iter = 19631, queue = 27870, heur = -9.0, depth = 9
iter = 19632, queue = 27869, heur = -9.0, depth = 9
iter = 19633, queue = 27870, heur = -9.0, depth = 10
iter = 19634, queue = 27871, heur = -9.0, depth = 9
iter = 19635, queue = 27872, heur = -9.0, depth = 9
iter = 19636, queue = 27875, heur = -9.0, depth = 9
iter = 19637, queue = 27876, heur = -9.0, depth = 9
iter = 19638, queue = 27877, heur = -9.0, depth = 9
iter = 19639, queue = 27876, heur = -9.0, depth = 9
iter = 19640, queue = 27879, heur = -9.0, depth = 9
iter = 19641, queue = 27880, heur = -9.0, depth = 9
iter = 19642, queue = 27880, heur = -9.0, depth = 10
iter = 19643, queue = 27882, heur = -9.0, depth = 9
iter = 19644, queue = 27883, heur = -9.0, depth = 9
iter = 19645, queue = 27884, heur = -9.0, depth = 9
```

```
iter = 19646, queue = 27885, heur = -9.0, depth = 9
iter = 19647, queue = 27886, heur = -9.0, depth = 9
iter = 19648, queue = 27886, heur = -9.0, depth = 9
iter = 19649, queue = 27889, heur = -9.0, depth = 9
iter = 19650, queue = 27892, heur = -9.0, depth = 9
iter = 19651, queue = 27894, heur = -9.0, depth = 9
iter = 19652, queue = 27895, heur = -9.0, depth = 10
iter = 19653, queue = 27897, heur = -9.0, depth = 10
iter = 19654, queue = 27898, heur = -9.0, depth = 10
iter = 19655, queue = 27900, heur = -9.0, depth = 10
iter = 19656, queue = 27903, heur = -9.0, depth = 11
iter = 19657, queue = 27905, heur = -9.0, depth = 9
iter = 19658, queue = 27906, heur = -9.0, depth = 9
iter = 19659, queue = 27907, heur = -9.0, depth = 9
iter = 19660, queue = 27909, heur = -9.0, depth = 9
iter = 19661, queue = 27908, heur = -9.0, depth = 9
iter = 19662, queue = 27910, heur = -9.0, depth = 9
iter = 19663, queue = 27909, heur = -9.0, depth = 9
iter = 19664, queue = 27909, heur = -9.0, depth = 9
iter = 19665, queue = 27910, heur = -9.0, depth = 9
iter = 19666, queue = 27913, heur = -9.0, depth = 9
iter = 19667, queue = 27914, heur = -9.0, depth = 9
iter = 19668, queue = 27915, heur = -9.0, depth = 9
iter = 19669, queue = 27914, heur = -9.0, depth = 9
iter = 19670, queue = 27916, heur = -9.0, depth = 9
iter = 19671, queue = 27916, heur = -9.0, depth = 9
iter = 19672, queue = 27915, heur = -9.0, depth = 9
iter = 19673, queue = 27918, heur = -9.0, depth = 9
iter = 19674, queue = 27917, heur = -9.0, depth = 9
iter = 19675, queue = 27918, heur = -9.0, depth = 9
iter = 19676, queue = 27921, heur = -9.0, depth = 9
iter = 19677, queue = 27920, heur = -9.0, depth = 9
iter = 19678, queue = 27921, heur = -9.0, depth = 9
iter = 19679, queue = 27922, heur = -9.0, depth = 9
iter = 19680, queue = 27925, heur = -9.0, depth = 9
iter = 19681, queue = 27928, heur = -9.0, depth = 9
iter = 19682, queue = 27929, heur = -9.0, depth = 9
iter = 19683, queue = 27929, heur = -9.0, depth = 9
iter = 19684, queue = 27930, heur = -9.0, depth = 9
iter = 19685, queue = 27930, heur = -9.0, depth = 9
iter = 19686, queue = 27931, heur = -9.0, depth = 9
iter = 19687, queue = 27930, heur = -9.0, depth = 9
iter = 19688, queue = 27931, heur = -9.0, depth = 9
iter = 19689, queue = 27932, heur = -9.0, depth = 9
iter = 19690, queue = 27931, heur = -9.0, depth = 9
iter = 19691, queue = 27930, heur = -9.0, depth = 9
iter = 19692, queue = 27932, heur = -9.0, depth = 9
iter = 19693, queue = 27934, heur = -9.0, depth = 9
iter = 19694, queue = 27937, heur = -9.0, depth = 9
iter = 19695, queue = 27937, heur = -9.0, depth = 9
iter = 19696, queue = 27937, heur = -9.0, depth = 9
iter = 19697, queue = 27939, heur = -9.0, depth = 9
iter = 19698, queue = 27940, heur = -9.0, depth = 9
iter = 19699, queue = 27940, heur = -9.0, depth = 9
iter = 19700, queue = 27942, heur = -9.0, depth = 9
iter = 19701, queue = 27943, heur = -9.0, depth = 9
iter = 19702, queue = 27944, heur = -9.0, depth = 9
iter = 19703, queue = 27945, heur = -9.0, depth = 9
iter = 19704, queue = 27945, heur = -9.0, depth = 9
```

```
iter = 19705, queue = 27944, heur = -9.0, depth = 9
iter = 19706, queue = 27943, heur = -9.0, depth = 9
iter = 19707, queue = 27944, heur = -9.0, depth = 9
iter = 19708, queue = 27946, heur = -9.0, depth = 9
iter = 19709, queue = 27947, heur = -9.0, depth = 9
iter = 19710, queue = 27948, heur = -9.0, depth = 9
iter = 19711, queue = 27951, heur = -9.0, depth = 9
iter = 19712, queue = 27952, heur = -9.0, depth = 9
iter = 19713, queue = 27954, heur = -9.0, depth = 9
iter = 19714, queue = 27955, heur = -9.0, depth = 9
iter = 19715, queue = 27956, heur = -9.0, depth = 9
iter = 19716, queue = 27955, heur = -9.0, depth = 9
iter = 19717, queue = 27956, heur = -9.0, depth = 9
iter = 19718, queue = 27957, heur = -9.0, depth = 9
iter = 19719, queue = 27957, heur = -9.0, depth = 9
iter = 19720, queue = 27956, heur = -9.0, depth = 9
iter = 19721, queue = 27957, heur = -9.0, depth = 9
iter = 19722, queue = 27957, heur = -9.0, depth = 9
iter = 19723, queue = 27956, heur = -9.0, depth = 9
iter = 19724, queue = 27957, heur = -9.0, depth = 9
iter = 19725, queue = 27958, heur = -9.0, depth = 9
iter = 19726, queue = 27959, heur = -9.0, depth = 9
iter = 19727, queue = 27960, heur = -9.0, depth = 9
iter = 19728, queue = 27959, heur = -9.0, depth = 9
iter = 19729, queue = 27958, heur = -9.0, depth = 11
iter = 19730, queue = 27959, heur = -9.0, depth = 9
iter = 19731, queue = 27960, heur = -9.0, depth = 9
iter = 19732, queue = 27961, heur = -9.0, depth = 9
iter = 19733, queue = 27961, heur = -9.0, depth = 9
iter = 19734, queue = 27962, heur = -9.0, depth = 9
iter = 19735, queue = 27963, heur = -9.0, depth = 9
iter = 19736, queue = 27962, heur = -9.0, depth = 9
iter = 19737, queue = 27962, heur = -9.0, depth = 9
iter = 19738, queue = 27961, heur = -9.0, depth = 9
iter = 19739, queue = 27962, heur = -9.0, depth = 10
iter = 19740, queue = 27964, heur = -9.0, depth = 9
iter = 19741, queue = 27964, heur = -9.0, depth = 9
iter = 19742, queue = 27965, heur = -9.0, depth = 9
iter = 19743, queue = 27964, heur = -9.0, depth = 9
iter = 19744, queue = 27964, heur = -9.0, depth = 9
iter = 19745, queue = 27963, heur = -9.0, depth = 9
iter = 19746, queue = 27964, heur = -9.0, depth = 9
iter = 19747, queue = 27966, heur = -9.0, depth = 9
iter = 19748, queue = 27967, heur = -9.0, depth = 9
iter = 19749, queue = 27967, heur = -9.0, depth = 9
iter = 19750, queue = 27968, heur = -9.0, depth = 9
iter = 19751, queue = 27971, heur = -9.0, depth = 9
iter = 19752, queue = 27972, heur = -9.0, depth = 9
iter = 19753, queue = 27973, heur = -9.0, depth = 9
iter = 19754, queue = 27972, heur = -9.0, depth = 9
iter = 19755, queue = 27971, heur = -9.0, depth = 9
iter = 19756, queue = 27971, heur = -9.0, depth = 9
iter = 19757, queue = 27972, heur = -9.0, depth = 9
iter = 19758, queue = 27973, heur = -9.0, depth = 9
iter = 19759, queue = 27973, heur = -9.0, depth = 9
iter = 19760, queue = 27973, heur = -9.0, depth = 9
iter = 19761, queue = 27974, heur = -9.0, depth = 9
iter = 19762, queue = 27977, heur = -9.0, depth = 9
iter = 19763, queue = 27978, heur = -9.0, depth = 9
```

```
iter = 19764, queue = 27981, heur = -9.0, depth = 9
iter = 19765, queue = 27982, heur = -9.0, depth = 9
iter = 19766, queue = 27983, heur = -9.0, depth = 9
iter = 19767, queue = 27985, heur = -9.0, depth = 9
iter = 19768, queue = 27988, heur = -9.0, depth = 9
iter = 19769, queue = 27988, heur = -9.0, depth = 9
iter = 19770, queue = 27989, heur = -9.0, depth = 9
iter = 19771, queue = 27988, heur = -9.0, depth = 9
iter = 19772, queue = 27989, heur = -9.0, depth = 9
iter = 19773, queue = 27990, heur = -9.0, depth = 9
iter = 19774, queue = 27991, heur = -9.0, depth = 9
iter = 19775, queue = 27992, heur = -9.0, depth = 9
iter = 19776, queue = 27992, heur = -9.0, depth = 9
iter = 19777, queue = 27993, heur = -9.0, depth = 9
iter = 19778, queue = 27994, heur = -9.0, depth = 9
iter = 19779, queue = 27994, heur = -9.0, depth = 9
iter = 19780, queue = 27996, heur = -9.0, depth = 9
iter = 19781, queue = 27999, heur = -9.0, depth = 10
iter = 19782, queue = 28002, heur = -9.0, depth = 9
iter = 19783, queue = 28005, heur = -9.0, depth = 9
iter = 19784, queue = 28006, heur = -9.0, depth = 9
iter = 19785, queue = 28008, heur = -9.0, depth = 9
iter = 19786, queue = 28009, heur = -9.0, depth = 9
iter = 19787, queue = 28010, heur = -9.0, depth = 9
iter = 19788, queue = 28012, heur = -9.0, depth = 9
iter = 19789, queue = 28014, heur = -9.0, depth = 9
iter = 19790, queue = 28014, heur = -9.0, depth = 9
iter = 19791, queue = 28017, heur = -9.0, depth = 9
iter = 19792, queue = 28018, heur = -9.0, depth = 9
iter = 19793, queue = 28020, heur = -9.0, depth = 9
iter = 19794, queue = 28022, heur = -9.0, depth = 9
iter = 19795, queue = 28023, heur = -9.0, depth = 9
iter = 19796, queue = 28024, heur = -9.0, depth = 9
iter = 19797, queue = 28025, heur = -9.0, depth = 9
iter = 19798, queue = 28024, heur = -9.0, depth = 9
iter = 19799, queue = 28026, heur = -9.0, depth = 9
iter = 19800, queue = 28026, heur = -9.0, depth = 9
iter = 19801, queue = 28029, heur = -9.0, depth = 9
iter = 19802, queue = 28029, heur = -9.0, depth = 9
iter = 19803, queue = 28030, heur = -9.0, depth = 9
iter = 19804, queue = 28032, heur = -9.0, depth = 9
iter = 19805, queue = 28032, heur = -9.0, depth = 9
iter = 19806, queue = 28032, heur = -9.0, depth = 9
iter = 19807, queue = 28033, heur = -9.0, depth = 9
iter = 19808, queue = 28034, heur = -9.0, depth = 9
iter = 19809, queue = 28033, heur = -9.0, depth = 9
iter = 19810, queue = 28035, heur = -9.0, depth = 9
iter = 19811, queue = 28038, heur = -9.0, depth = 9
iter = 19812, queue = 28040, heur = -9.0, depth = 9
iter = 19813, queue = 28040, heur = -9.0, depth = 9
iter = 19814, queue = 28042, heur = -9.0, depth = 9
iter = 19815, queue = 28043, heur = -9.0, depth = 9
iter = 19816, queue = 28044, heur = -9.0, depth = 9
iter = 19817, queue = 28047, heur = -9.0, depth = 10
iter = 19818, queue = 28050, heur = -9.0, depth = 9
iter = 19819, queue = 28051, heur = -9.0, depth = 9
iter = 19820, queue = 28054, heur = -9.0, depth = 9
iter = 19821, queue = 28055, heur = -9.0, depth = 9
iter = 19822, queue = 28056, heur = -9.0, depth = 9
```

```
iter = 19823, queue = 28059, heur = -9.0, depth = 9
iter = 19824, queue = 28059, heur = -9.0, depth = 9
iter = 19825, queue = 28062, heur = -9.0, depth = 9
iter = 19826, queue = 28063, heur = -9.0, depth = 9
iter = 19827, queue = 28064, heur = -9.0, depth = 9
iter = 19828, queue = 28067, heur = -9.0, depth = 9
iter = 19829, queue = 28068, heur = -9.0, depth = 9
iter = 19830, queue = 28069, heur = -9.0, depth = 9
iter = 19831, queue = 28072, heur = -9.0, depth = 9
iter = 19832, queue = 28075, heur = -9.0, depth = 9
iter = 19833, queue = 28076, heur = -9.0, depth = 9
iter = 19834, queue = 28075, heur = -9.0, depth = 9
iter = 19835, queue = 28076, heur = -9.0, depth = 9
iter = 19836, queue = 28078, heur = -9.0, depth = 9
iter = 19837, queue = 28081, heur = -9.0, depth = 9
iter = 19838, queue = 28080, heur = -9.0, depth = 9
iter = 19839, queue = 28081, heur = -9.0, depth = 9
iter = 19840, queue = 28084, heur = -9.0, depth = 9
iter = 19841, queue = 28085, heur = -9.0, depth = 9
iter = 19842, queue = 28088, heur = -9.0, depth = 9
iter = 19843, queue = 28089, heur = -9.0, depth = 9
iter = 19844, queue = 28091, heur = -9.0, depth = 9
iter = 19845, queue = 28093, heur = -9.0, depth = 9
iter = 19846, queue = 28093, heur = -9.0, depth = 9
iter = 19847, queue = 28094, heur = -9.0, depth = 9
iter = 19848, queue = 28093, heur = -9.0, depth = 9
iter = 19849, queue = 28096, heur = -9.0, depth = 9
iter = 19850, queue = 28098, heur = -9.0, depth = 9
iter = 19851, queue = 28098, heur = -9.0, depth = 9
iter = 19852, queue = 28098, heur = -9.0, depth = 9
iter = 19853, queue = 28098, heur = -9.0, depth = 9
iter = 19854, queue = 28100, heur = -9.0, depth = 9
iter = 19855, queue = 28103, heur = -9.0, depth = 9
iter = 19856, queue = 28102, heur = -9.0, depth = 9
iter = 19857, queue = 28103, heur = -9.0, depth = 9
iter = 19858, queue = 28103, heur = -9.0, depth = 9
iter = 19859, queue = 28105, heur = -9.0, depth = 9
iter = 19860, queue = 28106, heur = -9.0, depth = 9
iter = 19861, queue = 28107, heur = -9.0, depth = 9
iter = 19862, queue = 28109, heur = -9.0, depth = 9
iter = 19863, queue = 28112, heur = -9.0, depth = 9
iter = 19864, queue = 28112, heur = -9.0, depth = 9
iter = 19865, queue = 28114, heur = -9.0, depth = 9
iter = 19866, queue = 28116, heur = -9.0, depth = 9
iter = 19867, queue = 28116, heur = -9.0, depth = 9
iter = 19868, queue = 28117, heur = -9.0, depth = 10
iter = 19869, queue = 28118, heur = -9.0, depth = 9
iter = 19870, queue = 28121, heur = -9.0, depth = 9
iter = 19871, queue = 28122, heur = -9.0, depth = 9
iter = 19872, queue = 28124, heur = -9.0, depth = 9
iter = 19873, queue = 28125, heur = -9.0, depth = 9
iter = 19874, queue = 28126, heur = -9.0, depth = 9
iter = 19875, queue = 28127, heur = -9.0, depth = 9
iter = 19876, queue = 28126, heur = -9.0, depth = 9
iter = 19877, queue = 28127, heur = -9.0, depth = 9
iter = 19878, queue = 28126, heur = -9.0, depth = 9
iter = 19879, queue = 28129, heur = -9.0, depth = 9
iter = 19880, queue = 28128, heur = -9.0, depth = 9
iter = 19881, queue = 28128, heur = -9.0, depth = 9
```

```
iter = 19882, queue = 28129, heur = -9.0, depth = 9
iter = 19883, queue = 28131, heur = -9.0, depth = 9
iter = 19884, queue = 28132, heur = -9.0, depth = 9
iter = 19885, queue = 28133, heur = -9.0, depth = 9
iter = 19886, queue = 28135, heur = -9.0, depth = 9
iter = 19887, queue = 28135, heur = -9.0, depth = 9
iter = 19888, queue = 28137, heur = -9.0, depth = 9
iter = 19889, queue = 28136, heur = -9.0, depth = 9
iter = 19890, queue = 28138, heur = -9.0, depth = 9
iter = 19891, queue = 28139, heur = -9.0, depth = 9
iter = 19892, queue = 28139, heur = -9.0, depth = 9
iter = 19893, queue = 28142, heur = -9.0, depth = 10
iter = 19894, queue = 28144, heur = -9.0, depth = 10
iter = 19895, queue = 28145, heur = -9.0, depth = 9
iter = 19896, queue = 28148, heur = -9.0, depth = 10
iter = 19897, queue = 28149, heur = -9.0, depth = 9
iter = 19898, queue = 28150, heur = -9.0, depth = 10
iter = 19899, queue = 28150, heur = -9.0, depth = 9
iter = 19900, queue = 28151, heur = -9.0, depth = 9
iter = 19901, queue = 28152, heur = -9.0, depth = 9
iter = 19902, queue = 28155, heur = -9.0, depth = 9
iter = 19903, queue = 28158, heur = -9.0, depth = 9
iter = 19904, queue = 28159, heur = -9.0, depth = 10
iter = 19905, queue = 28160, heur = -9.0, depth = 9
iter = 19906, queue = 28160, heur = -9.0, depth = 9
iter = 19907, queue = 28161, heur = -9.0, depth = 10
iter = 19908, queue = 28163, heur = -9.0, depth = 9
iter = 19909, queue = 28164, heur = -9.0, depth = 10
iter = 19910, queue = 28167, heur = -9.0, depth = 9
iter = 19911, queue = 28170, heur = -9.0, depth = 9
iter = 19912, queue = 28173, heur = -9.0, depth = 9
iter = 19913, queue = 28174, heur = -9.0, depth = 9
iter = 19914, queue = 28175, heur = -9.0, depth = 9
iter = 19915, queue = 28177, heur = -9.0, depth = 9
iter = 19916, queue = 28179, heur = -9.0, depth = 9
iter = 19917, queue = 28181, heur = -9.0, depth = 9
iter = 19918, queue = 28182, heur = -9.0, depth = 9
iter = 19919, queue = 28183, heur = -9.0, depth = 9
iter = 19920, queue = 28184, heur = -9.0, depth = 9
iter = 19921, queue = 28185, heur = -9.0, depth = 9
iter = 19922, queue = 28186, heur = -9.0, depth = 9
iter = 19923, queue = 28188, heur = -9.0, depth = 9
iter = 19924, queue = 28189, heur = -9.0, depth = 9
iter = 19925, queue = 28191, heur = -9.0, depth = 10
iter = 19926, queue = 28192, heur = -9.0, depth = 9
iter = 19927, queue = 28192, heur = -9.0, depth = 10
iter = 19928, queue = 28191, heur = -9.0, depth = 10
iter = 19929, queue = 28194, heur = -9.0, depth = 9
iter = 19930, queue = 28197, heur = -9.0, depth = 9
iter = 19931, queue = 28200, heur = -9.0, depth = 9
iter = 19932, queue = 28202, heur = -9.0, depth = 9
iter = 19933, queue = 28203, heur = -9.0, depth = 9
iter = 19934, queue = 28203, heur = -9.0, depth = 9
iter = 19935, queue = 28204, heur = -9.0, depth = 9
iter = 19936, queue = 28206, heur = -9.0, depth = 9
iter = 19937, queue = 28207, heur = -9.0, depth = 9
iter = 19938, queue = 28208, heur = -9.0, depth = 9
iter = 19939, queue = 28209, heur = -9.0, depth = 9
iter = 19940, queue = 28210, heur = -9.0, depth = 9
```

```
iter = 19941, queue = 28212, heur = -9.0, depth = 10
iter = 19942, queue = 28212, heur = -9.0, depth = 9
iter = 19943, queue = 28213, heur = -9.0, depth = 9
iter = 19944, queue = 28214, heur = -9.0, depth = 9
iter = 19945, queue = 28213, heur = -9.0, depth = 9
iter = 19946, queue = 28212, heur = -9.0, depth = 9
iter = 19947, queue = 28213, heur = -9.0, depth = 9
iter = 19948, queue = 28214, heur = -9.0, depth = 9
iter = 19949, queue = 28215, heur = -9.0, depth = 9
iter = 19950, queue = 28216, heur = -9.0, depth = 9
iter = 19951, queue = 28216, heur = -9.0, depth = 9
iter = 19952, queue = 28219, heur = -9.0, depth = 9
iter = 19953, queue = 28221, heur = -9.0, depth = 9
iter = 19954, queue = 28222, heur = -9.0, depth = 10
iter = 19955, queue = 28225, heur = -9.0, depth = 9
iter = 19956, queue = 28224, heur = -9.0, depth = 9
iter = 19957, queue = 28225, heur = -9.0, depth = 9
iter = 19958, queue = 28226, heur = -9.0, depth = 9
iter = 19959, queue = 28226, heur = -9.0, depth = 9
iter = 19960, queue = 28227, heur = -9.0, depth = 9
iter = 19961, queue = 28226, heur = -9.0, depth = 9
iter = 19962, queue = 28227, heur = -9.0, depth = 9
iter = 19963, queue = 28229, heur = -9.0, depth = 9
iter = 19964, queue = 28232, heur = -9.0, depth = 9
iter = 19965, queue = 28235, heur = -9.0, depth = 9
iter = 19966, queue = 28238, heur = -9.0, depth = 9
iter = 19967, queue = 28240, heur = -9.0, depth = 9
iter = 19968, queue = 28241, heur = -9.0, depth = 9
iter = 19969, queue = 28242, heur = -9.0, depth = 9
iter = 19970, queue = 28243, heur = -9.0, depth = 9
iter = 19971, queue = 28244, heur = -9.0, depth = 9
iter = 19972, queue = 28245, heur = -9.0, depth = 9
iter = 19973, queue = 28248, heur = -9.0, depth = 9
iter = 19974, queue = 28249, heur = -9.0, depth = 9
iter = 19975, queue = 28250, heur = -9.0, depth = 9
iter = 19976, queue = 28249, heur = -9.0, depth = 9
iter = 19977, queue = 28249, heur = -9.0, depth = 9
iter = 19978, queue = 28249, heur = -9.0, depth = 9
iter = 19979, queue = 28249, heur = -9.0, depth = 9
iter = 19980, queue = 28249, heur = -9.0, depth = 9
iter = 19981, queue = 28251, heur = -9.0, depth = 9
iter = 19982, queue = 28250, heur = -9.0, depth = 10
iter = 19983, queue = 28251, heur = -9.0, depth = 9
iter = 19984, queue = 28252, heur = -9.0, depth = 9
iter = 19985, queue = 28252, heur = -9.0, depth = 9
iter = 19986, queue = 28253, heur = -9.0, depth = 9
iter = 19987, queue = 28253, heur = -9.0, depth = 9
iter = 19988, queue = 28252, heur = -9.0, depth = 9
iter = 19989, queue = 28252, heur = -9.0, depth = 10
iter = 19990, queue = 28253, heur = -9.0, depth = 9
iter = 19991, queue = 28252, heur = -9.0, depth = 9
iter = 19992, queue = 28253, heur = -9.0, depth = 9
iter = 19993, queue = 28254, heur = -9.0, depth = 9
iter = 19994, queue = 28255, heur = -9.0, depth = 9
iter = 19995, queue = 28258, heur = -9.0, depth = 9
iter = 19996, queue = 28258, heur = -9.0, depth = 9
iter = 19997, queue = 28259, heur = -9.0, depth = 9
iter = 19998, queue = 28258, heur = -9.0, depth = 9
iter = 19999, queue = 28257, heur = -9.0, depth = 9
```

```
iter = 20000, queue = 28259, heur = -9.0, depth = 9
iter = 20001, queue = 28260, heur = -9.0, depth = 9
iter = 20002, queue = 28262, heur = -9.0, depth = 9
iter = 20003, queue = 28262, heur = -9.0, depth = 9
iter = 20004, queue = 28262, heur = -9.0, depth = 9
iter = 20005, queue = 28263, heur = -9.0, depth = 10
iter = 20006, queue = 28264, heur = -9.0, depth = 10
iter = 20007, queue = 28264, heur = -9.0, depth = 9
iter = 20008, queue = 28266, heur = -9.0, depth = 9
iter = 20009, queue = 28268, heur = -9.0, depth = 9
iter = 20010, queue = 28270, heur = -9.0, depth = 9
iter = 20011, queue = 28271, heur = -9.0, depth = 10
iter = 20012, queue = 28274, heur = -9.0, depth = 9
iter = 20013, queue = 28274, heur = -9.0, depth = 9
iter = 20014, queue = 28275, heur = -9.0, depth = 9
iter = 20015, queue = 28278, heur = -9.0, depth = 9
iter = 20016, queue = 28280, heur = -9.0, depth = 9
iter = 20017, queue = 28281, heur = -9.0, depth = 9
iter = 20018, queue = 28284, heur = -9.0, depth = 9
iter = 20019, queue = 28287, heur = -9.0, depth = 9
iter = 20020, queue = 28287, heur = -9.0, depth = 9
iter = 20021, queue = 28288, heur = -9.0, depth = 9
iter = 20022, queue = 28289, heur = -9.0, depth = 9
iter = 20023, queue = 28292, heur = -9.0, depth = 9
iter = 20024, queue = 28292, heur = -9.0, depth = 9
iter = 20025, queue = 28294, heur = -9.0, depth = 9
iter = 20026, queue = 28294, heur = -9.0, depth = 9
iter = 20027, queue = 28296, heur = -9.0, depth = 9
iter = 20028, queue = 28299, heur = -9.0, depth = 9
iter = 20029, queue = 28302, heur = -9.0, depth = 9
iter = 20030, queue = 28303, heur = -9.0, depth = 9
iter = 20031, queue = 28305, heur = -9.0, depth = 9
iter = 20032, queue = 28306, heur = -9.0, depth = 10
iter = 20033, queue = 28306, heur = -9.0, depth = 9
iter = 20034, queue = 28309, heur = -9.0, depth = 9
iter = 20035, queue = 28312, heur = -9.0, depth = 9
iter = 20036, queue = 28312, heur = -9.0, depth = 9
iter = 20037, queue = 28311, heur = -9.0, depth = 9
iter = 20038, queue = 28312, heur = -9.0, depth = 10
iter = 20039, queue = 28313, heur = -9.0, depth = 9
iter = 20040, queue = 28314, heur = -9.0, depth = 9
iter = 20041, queue = 28313, heur = -9.0, depth = 9
iter = 20042, queue = 28314, heur = -9.0, depth = 9
iter = 20043, queue = 28314, heur = -9.0, depth = 9
iter = 20044, queue = 28315, heur = -9.0, depth = 9
iter = 20045, queue = 28317, heur = -9.0, depth = 9
iter = 20046, queue = 28318, heur = -9.0, depth = 9
iter = 20047, queue = 28318, heur = -9.0, depth = 9
iter = 20048, queue = 28319, heur = -9.0, depth = 9
iter = 20049, queue = 28320, heur = -9.0, depth = 9
iter = 20050, queue = 28321, heur = -9.0, depth = 9
iter = 20051, queue = 28320, heur = -9.0, depth = 9
iter = 20052, queue = 28321, heur = -9.0, depth = 9
iter = 20053, queue = 28320, heur = -9.0, depth = 9
iter = 20054, queue = 28321, heur = -9.0, depth = 9
iter = 20055, queue = 28322, heur = -9.0, depth = 9
iter = 20056, queue = 28324, heur = -9.0, depth = 9
iter = 20057, queue = 28325, heur = -9.0, depth = 10
iter = 20058, queue = 28327, heur = -9.0, depth = 9
```

```
iter = 20059, queue = 28328, heur = -9.0, depth = 9
iter = 20060, queue = 28330, heur = -9.0, depth = 9
iter = 20061, queue = 28331, heur = -9.0, depth = 9
iter = 20062, queue = 28334, heur = -9.0, depth = 9
iter = 20063, queue = 28335, heur = -9.0, depth = 9
iter = 20064, queue = 28335, heur = -9.0, depth = 10
iter = 20065, queue = 28338, heur = -9.0, depth = 10
iter = 20066, queue = 28339, heur = -9.0, depth = 9
iter = 20067, queue = 28340, heur = -9.0, depth = 9
iter = 20068, queue = 28343, heur = -9.0, depth = 9
iter = 20069, queue = 28346, heur = -9.0, depth = 10
iter = 20070, queue = 28347, heur = -9.0, depth = 9
iter = 20071, queue = 28349, heur = -9.0, depth = 10
iter = 20072, queue = 28350, heur = -9.0, depth = 10
iter = 20073, queue = 28350, heur = -9.0, depth = 9
iter = 20074, queue = 28350, heur = -9.0, depth = 9
iter = 20075, queue = 28353, heur = -9.0, depth = 9
iter = 20076, queue = 28354, heur = -9.0, depth = 9
iter = 20077, queue = 28357, heur = -9.0, depth = 9
iter = 20078, queue = 28357, heur = -9.0, depth = 9
iter = 20079, queue = 28360, heur = -9.0, depth = 9
iter = 20080, queue = 28361, heur = -9.0, depth = 9
iter = 20081, queue = 28362, heur = -9.0, depth = 9
iter = 20082, queue = 28363, heur = -9.0, depth = 9
iter = 20083, queue = 28362, heur = -9.0, depth = 9
iter = 20084, queue = 28361, heur = -9.0, depth = 9
iter = 20085, queue = 28362, heur = -9.0, depth = 9
iter = 20086, queue = 28365, heur = -9.0, depth = 9
iter = 20087, queue = 28366, heur = -9.0, depth = 9
iter = 20088, queue = 28369, heur = -9.0, depth = 9
iter = 20089, queue = 28368, heur = -9.0, depth = 9
iter = 20090, queue = 28369, heur = -9.0, depth = 9
iter = 20091, queue = 28371, heur = -9.0, depth = 9
iter = 20092, queue = 28372, heur = -9.0, depth = 9
iter = 20093, queue = 28372, heur = -9.0, depth = 9
iter = 20094, queue = 28375, heur = -9.0, depth = 9
iter = 20095, queue = 28374, heur = -9.0, depth = 10
iter = 20096, queue = 28377, heur = -9.0, depth = 9
iter = 20097, queue = 28379, heur = -9.0, depth = 9
iter = 20098, queue = 28378, heur = -9.0, depth = 9
iter = 20099, queue = 28380, heur = -9.0, depth = 9
iter = 20100, queue = 28381, heur = -9.0, depth = 9
iter = 20101, queue = 28381, heur = -9.0, depth = 9
iter = 20102, queue = 28381, heur = -9.0, depth = 9
iter = 20103, queue = 28381, heur = -9.0, depth = 9
iter = 20104, queue = 28384, heur = -9.0, depth = 10
iter = 20105, queue = 28385, heur = -9.0, depth = 9
iter = 20106, queue = 28387, heur = -9.0, depth = 9
iter = 20107, queue = 28388, heur = -9.0, depth = 9
iter = 20108, queue = 28389, heur = -9.0, depth = 10
iter = 20109, queue = 28389, heur = -9.0, depth = 9
iter = 20110, queue = 28391, heur = -9.0, depth = 9
iter = 20111, queue = 28392, heur = -9.0, depth = 9
iter = 20112, queue = 28392, heur = -9.0, depth = 9
iter = 20113, queue = 28391, heur = -9.0, depth = 9
iter = 20114, queue = 28391, heur = -9.0, depth = 9
iter = 20115, queue = 28391, heur = -9.0, depth = 9
iter = 20116, queue = 28390, heur = -9.0, depth = 9
iter = 20117, queue = 28390, heur = -9.0, depth = 9
```

```
iter = 20118, queue = 28390, heur = -9.0, depth = 9
iter = 20119, queue = 28391, heur = -9.0, depth = 9
iter = 20120, queue = 28392, heur = -9.0, depth = 9
iter = 20121, queue = 28395, heur = -9.0, depth = 9
iter = 20122, queue = 28395, heur = -9.0, depth = 9
iter = 20123, queue = 28397, heur = -9.0, depth = 9
iter = 20124, queue = 28396, heur = -9.0, depth = 9
iter = 20125, queue = 28397, heur = -9.0, depth = 9
iter = 20126, queue = 28398, heur = -9.0, depth = 9
iter = 20127, queue = 28398, heur = -9.0, depth = 9
iter = 20128, queue = 28401, heur = -9.0, depth = 9
iter = 20129, queue = 28402, heur = -9.0, depth = 9
iter = 20130, queue = 28403, heur = -9.0, depth = 9
iter = 20131, queue = 28405, heur = -9.0, depth = 9
iter = 20132, queue = 28406, heur = -9.0, depth = 9
iter = 20133, queue = 28407, heur = -9.0, depth = 9
iter = 20134, queue = 28406, heur = -9.0, depth = 9
iter = 20135, queue = 28409, heur = -9.0, depth = 9
iter = 20136, queue = 28411, heur = -9.0, depth = 9
iter = 20137, queue = 28413, heur = -9.0, depth = 9
iter = 20138, queue = 28412, heur = -9.0, depth = 9
iter = 20139, queue = 28413, heur = -9.0, depth = 9
iter = 20140, queue = 28416, heur = -9.0, depth = 9
iter = 20141, queue = 28415, heur = -9.0, depth = 9
iter = 20142, queue = 28417, heur = -9.0, depth = 9
iter = 20143, queue = 28417, heur = -9.0, depth = 9
iter = 20144, queue = 28416, heur = -9.0, depth = 9
iter = 20145, queue = 28415, heur = -9.0, depth = 9
iter = 20146, queue = 28416, heur = -9.0, depth = 9
iter = 20147, queue = 28417, heur = -9.0, depth = 9
iter = 20148, queue = 28416, heur = -9.0, depth = 9
iter = 20149, queue = 28415, heur = -9.0, depth = 9
iter = 20150, queue = 28416, heur = -9.0, depth = 9
iter = 20151, queue = 28416, heur = -9.0, depth = 10
iter = 20152, queue = 28417, heur = -9.0, depth = 9
iter = 20153, queue = 28419, heur = -9.0, depth = 9
iter = 20154, queue = 28422, heur = -9.0, depth = 9
iter = 20155, queue = 28424, heur = -9.0, depth = 9
iter = 20156, queue = 28424, heur = -9.0, depth = 9
iter = 20157, queue = 28427, heur = -9.0, depth = 9
iter = 20158, queue = 28428, heur = -9.0, depth = 9
iter = 20159, queue = 28427, heur = -9.0, depth = 9
iter = 20160, queue = 28428, heur = -9.0, depth = 9
iter = 20161, queue = 28429, heur = -9.0, depth = 9
iter = 20162, queue = 28432, heur = -9.0, depth = 9
iter = 20163, queue = 28432, heur = -9.0, depth = 9
iter = 20164, queue = 28435, heur = -9.0, depth = 9
iter = 20165, queue = 28436, heur = -9.0, depth = 9
iter = 20166, queue = 28437, heur = -9.0, depth = 9
iter = 20167, queue = 28438, heur = -9.0, depth = 9
iter = 20168, queue = 28439, heur = -9.0, depth = 9
iter = 20169, queue = 28440, heur = -9.0, depth = 9
iter = 20170, queue = 28441, heur = -9.0, depth = 9
iter = 20171, queue = 28444, heur = -9.0, depth = 10
iter = 20172, queue = 28446, heur = -9.0, depth = 10
iter = 20173, queue = 28449, heur = -9.0, depth = 9
iter = 20174, queue = 28448, heur = -9.0, depth = 9
iter = 20175, queue = 28450, heur = -9.0, depth = 9
iter = 20176, queue = 28453, heur = -9.0, depth = 9
```

```
iter = 20177, queue = 28455, heur = -9.0, depth = 9
iter = 20178, queue = 28454, heur = -9.0, depth = 9
iter = 20179, queue = 28454, heur = -9.0, depth = 10
iter = 20180, queue = 28455, heur = -9.0, depth = 9
iter = 20181, queue = 28456, heur = -9.0, depth = 9
iter = 20182, queue = 28457, heur = -9.0, depth = 9
iter = 20183, queue = 28459, heur = -9.0, depth = 9
iter = 20184, queue = 28460, heur = -9.0, depth = 9
iter = 20185, queue = 28460, heur = -9.0, depth = 9
iter = 20186, queue = 28461, heur = -9.0, depth = 9
iter = 20187, queue = 28462, heur = -9.0, depth = 9
iter = 20188, queue = 28463, heur = -9.0, depth = 9
iter = 20189, queue = 28464, heur = -9.0, depth = 9
iter = 20190, queue = 28463, heur = -9.0, depth = 9
iter = 20191, queue = 28462, heur = -9.0, depth = 10
iter = 20192, queue = 28463, heur = -9.0, depth = 9
iter = 20193, queue = 28464, heur = -9.0, depth = 10
iter = 20194, queue = 28466, heur = -9.0, depth = 9
iter = 20195, queue = 28467, heur = -9.0, depth = 9
iter = 20196, queue = 28468, heur = -9.0, depth = 10
iter = 20197, queue = 28469, heur = -9.0, depth = 10
iter = 20198, queue = 28470, heur = -9.0, depth = 9
iter = 20199, queue = 28471, heur = -9.0, depth = 9
iter = 20200, queue = 28470, heur = -9.0, depth = 9
iter = 20201, queue = 28469, heur = -9.0, depth = 9
iter = 20202, queue = 28468, heur = -9.0, depth = 9
iter = 20203, queue = 28469, heur = -9.0, depth = 9
iter = 20204, queue = 28469, heur = -9.0, depth = 9
iter = 20205, queue = 28471, heur = -9.0, depth = 9
iter = 20206, queue = 28472, heur = -9.0, depth = 9
iter = 20207, queue = 28472, heur = -9.0, depth = 9
iter = 20208, queue = 28473, heur = -9.0, depth = 10
iter = 20209, queue = 28474, heur = -9.0, depth = 9
iter = 20210, queue = 28475, heur = -9.0, depth = 9
iter = 20211, queue = 28476, heur = -9.0, depth = 9
iter = 20212, queue = 28476, heur = -9.0, depth = 9
iter = 20213, queue = 28477, heur = -9.0, depth = 9
iter = 20214, queue = 28479, heur = -9.0, depth = 10
iter = 20215, queue = 28482, heur = -9.0, depth = 9
iter = 20216, queue = 28482, heur = -9.0, depth = 9
iter = 20217, queue = 28485, heur = -9.0, depth = 9
iter = 20218, queue = 28486, heur = -9.0, depth = 9
iter = 20219, queue = 28485, heur = -9.0, depth = 9
iter = 20220, queue = 28486, heur = -9.0, depth = 9
iter = 20221, queue = 28487, heur = -9.0, depth = 9
iter = 20222, queue = 28488, heur = -9.0, depth = 9
iter = 20223, queue = 28490, heur = -9.0, depth = 9
iter = 20224, queue = 28493, heur = -9.0, depth = 9
iter = 20225, queue = 28492, heur = -9.0, depth = 9
iter = 20226, queue = 28491, heur = -9.0, depth = 9
iter = 20227, queue = 28492, heur = -9.0, depth = 9
iter = 20228, queue = 28493, heur = -9.0, depth = 10
iter = 20229, queue = 28494, heur = -9.0, depth = 9
iter = 20230, queue = 28494, heur = -9.0, depth = 9
iter = 20231, queue = 28495, heur = -9.0, depth = 9
iter = 20232, queue = 28495, heur = -9.0, depth = 9
iter = 20233, queue = 28496, heur = -9.0, depth = 10
iter = 20234, queue = 28497, heur = -9.0, depth = 11
iter = 20235, queue = 28499, heur = -9.0, depth = 9
```

```
iter = 20236, queue = 28498, heur = -9.0, depth = 9
iter = 20237, queue = 28500, heur = -9.0, depth = 9
iter = 20238, queue = 28499, heur = -9.0, depth = 11
iter = 20239, queue = 28502, heur = -9.0, depth = 9
iter = 20240, queue = 28503, heur = -9.0, depth = 11
iter = 20241, queue = 28504, heur = -9.0, depth = 11
iter = 20242, queue = 28505, heur = -9.0, depth = 9
iter = 20243, queue = 28506, heur = -9.0, depth = 11
iter = 20244, queue = 28506, heur = -9.0, depth = 11
iter = 20245, queue = 28507, heur = -9.0, depth = 11
iter = 20246, queue = 28508, heur = -9.0, depth = 9
iter = 20247, queue = 28509, heur = -9.0, depth = 9
iter = 20248, queue = 28509, heur = -9.0, depth = 9
iter = 20249, queue = 28509, heur = -9.0, depth = 9
iter = 20250, queue = 28512, heur = -9.0, depth = 9
iter = 20251, queue = 28511, heur = -9.0, depth = 9
iter = 20252, queue = 28510, heur = -9.0, depth = 9
iter = 20253, queue = 28509, heur = -9.0, depth = 9
iter = 20254, queue = 28508, heur = -9.0, depth = 11
iter = 20255, queue = 28509, heur = -9.0, depth = 9
iter = 20256, queue = 28510, heur = -9.0, depth = 9
iter = 20257, queue = 28510, heur = -9.0, depth = 11
iter = 20258, queue = 28512, heur = -9.0, depth = 11
iter = 20259, queue = 28515, heur = -9.0, depth = 13
iter = 20260, queue = 28517, heur = -9.0, depth = 9
iter = 20261, queue = 28518, heur = -9.0, depth = 9
iter = 20262, queue = 28518, heur = -9.0, depth = 9
iter = 20263, queue = 28520, heur = -9.0, depth = 9
iter = 20264, queue = 28521, heur = -9.0, depth = 9
iter = 20265, queue = 28521, heur = -9.0, depth = 9
iter = 20266, queue = 28521, heur = -9.0, depth = 9
iter = 20267, queue = 28520, heur = -9.0, depth = 9
iter = 20268, queue = 28522, heur = -9.0, depth = 10
iter = 20269, queue = 28524, heur = -9.0, depth = 9
iter = 20270, queue = 28525, heur = -9.0, depth = 9
iter = 20271, queue = 28525, heur = -9.0, depth = 9
iter = 20272, queue = 28526, heur = -9.0, depth = 9
iter = 20273, queue = 28525, heur = -9.0, depth = 9
iter = 20274, queue = 28528, heur = -9.0, depth = 9
iter = 20275, queue = 28529, heur = -9.0, depth = 9
iter = 20276, queue = 28530, heur = -9.0, depth = 9
iter = 20277, queue = 28531, heur = -9.0, depth = 9
iter = 20278, queue = 28532, heur = -9.0, depth = 9
iter = 20279, queue = 28534, heur = -9.0, depth = 9
iter = 20280, queue = 28535, heur = -9.0, depth = 9
iter = 20281, queue = 28536, heur = -9.0, depth = 9
iter = 20282, queue = 28536, heur = -9.0, depth = 9
iter = 20283, queue = 28537, heur = -9.0, depth = 9
iter = 20284, queue = 28538, heur = -9.0, depth = 9
iter = 20285, queue = 28539, heur = -9.0, depth = 9
iter = 20286, queue = 28540, heur = -9.0, depth = 9
iter = 20287, queue = 28542, heur = -9.0, depth = 9
iter = 20288, queue = 28543, heur = -9.0, depth = 9
iter = 20289, queue = 28544, heur = -9.0, depth = 9
iter = 20290, queue = 28545, heur = -9.0, depth = 9
iter = 20291, queue = 28547, heur = -9.0, depth = 9
iter = 20292, queue = 28546, heur = -9.0, depth = 9
iter = 20293, queue = 28545, heur = -9.0, depth = 9
iter = 20294, queue = 28546, heur = -9.0, depth = 9
```

```
iter = 20295, queue = 28546, heur = -9.0, depth = 9
iter = 20296, queue = 28545, heur = -9.0, depth = 9
iter = 20297, queue = 28546, heur = -9.0, depth = 9
iter = 20298, queue = 28548, heur = -9.0, depth = 9
iter = 20299, queue = 28549, heur = -9.0, depth = 9
iter = 20300, queue = 28550, heur = -9.0, depth = 9
iter = 20301, queue = 28551, heur = -9.0, depth = 9
iter = 20302, queue = 28552, heur = -9.0, depth = 9
iter = 20303, queue = 28553, heur = -9.0, depth = 9
iter = 20304, queue = 28552, heur = -9.0, depth = 9
iter = 20305, queue = 28553, heur = -9.0, depth = 11
iter = 20306, queue = 28555, heur = -9.0, depth = 11
iter = 20307, queue = 28556, heur = -9.0, depth = 9
iter = 20308, queue = 28557, heur = -9.0, depth = 9
iter = 20309, queue = 28557, heur = -9.0, depth = 9
iter = 20310, queue = 28558, heur = -9.0, depth = 9
iter = 20311, queue = 28559, heur = -9.0, depth = 9
iter = 20312, queue = 28562, heur = -9.0, depth = 9
iter = 20313, queue = 28565, heur = -9.0, depth = 9
iter = 20314, queue = 28568, heur = -9.0, depth = 9
iter = 20315, queue = 28571, heur = -9.0, depth = 9
iter = 20316, queue = 28572, heur = -9.0, depth = 9
iter = 20317, queue = 28573, heur = -9.0, depth = 9
iter = 20318, queue = 28574, heur = -9.0, depth = 9
iter = 20319, queue = 28573, heur = -9.0, depth = 9
iter = 20320, queue = 28574, heur = -9.0, depth = 9
iter = 20321, queue = 28575, heur = -9.0, depth = 10
iter = 20322, queue = 28577, heur = -9.0, depth = 9
iter = 20323, queue = 28578, heur = -9.0, depth = 9
iter = 20324, queue = 28581, heur = -9.0, depth = 10
iter = 20325, queue = 28581, heur = -9.0, depth = 9
iter = 20326, queue = 28583, heur = -9.0, depth = 9
iter = 20327, queue = 28584, heur = -9.0, depth = 11
iter = 20328, queue = 28585, heur = -9.0, depth = 9
iter = 20329, queue = 28587, heur = -9.0, depth = 9
iter = 20330, queue = 28589, heur = -9.0, depth = 9
iter = 20331, queue = 28590, heur = -9.0, depth = 9
iter = 20332, queue = 28589, heur = -9.0, depth = 9
iter = 20333, queue = 28591, heur = -9.0, depth = 9
iter = 20334, queue = 28593, heur = -9.0, depth = 9
iter = 20335, queue = 28596, heur = -9.0, depth = 9
iter = 20336, queue = 28599, heur = -9.0, depth = 9
iter = 20337, queue = 28598, heur = -9.0, depth = 9
iter = 20338, queue = 28599, heur = -9.0, depth = 9
iter = 20339, queue = 28600, heur = -9.0, depth = 9
iter = 20340, queue = 28601, heur = -9.0, depth = 9
iter = 20341, queue = 28604, heur = -9.0, depth = 9
iter = 20342, queue = 28606, heur = -9.0, depth = 9
iter = 20343, queue = 28608, heur = -9.0, depth = 11
iter = 20344, queue = 28611, heur = -9.0, depth = 9
iter = 20345, queue = 28612, heur = -9.0, depth = 9
iter = 20346, queue = 28614, heur = -9.0, depth = 9
iter = 20347, queue = 28614, heur = -9.0, depth = 9
iter = 20348, queue = 28614, heur = -9.0, depth = 11
iter = 20349, queue = 28615, heur = -9.0, depth = 9
iter = 20350, queue = 28614, heur = -9.0, depth = 9
iter = 20351, queue = 28616, heur = -9.0, depth = 9
iter = 20352, queue = 28617, heur = -9.0, depth = 9
iter = 20353, queue = 28617, heur = -9.0, depth = 9
```

```
iter = 20354, queue = 28618, heur = -9.0, depth = 9
iter = 20355, queue = 28621, heur = -9.0, depth = 10
iter = 20356, queue = 28624, heur = -9.0, depth = 9
iter = 20357, queue = 28624, heur = -9.0, depth = 9
iter = 20358, queue = 28627, heur = -9.0, depth = 9
iter = 20359, queue = 28630, heur = -9.0, depth = 9
iter = 20360, queue = 28631, heur = -9.0, depth = 9
iter = 20361, queue = 28632, heur = -9.0, depth = 9
iter = 20362, queue = 28632, heur = -9.0, depth = 9
iter = 20363, queue = 28633, heur = -9.0, depth = 11
iter = 20364, queue = 28632, heur = -9.0, depth = 9
iter = 20365, queue = 28633, heur = -9.0, depth = 9
iter = 20366, queue = 28633, heur = -9.0, depth = 9
iter = 20367, queue = 28635, heur = -9.0, depth = 9
iter = 20368, queue = 28637, heur = -9.0, depth = 9
iter = 20369, queue = 28636, heur = -9.0, depth = 9
iter = 20370, queue = 28637, heur = -9.0, depth = 9
iter = 20371, queue = 28638, heur = -9.0, depth = 9
iter = 20372, queue = 28641, heur = -9.0, depth = 9
iter = 20373, queue = 28643, heur = -9.0, depth = 9
iter = 20374, queue = 28645, heur = -9.0, depth = 9
iter = 20375, queue = 28644, heur = -9.0, depth = 9
iter = 20376, queue = 28645, heur = -9.0, depth = 9
iter = 20377, queue = 28646, heur = -9.0, depth = 9
iter = 20378, queue = 28649, heur = -9.0, depth = 9
iter = 20379, queue = 28649, heur = -9.0, depth = 9
iter = 20380, queue = 28648, heur = -9.0, depth = 9
iter = 20381, queue = 28648, heur = -9.0, depth = 9
iter = 20382, queue = 28648, heur = -9.0, depth = 9
iter = 20383, queue = 28649, heur = -9.0, depth = 9
iter = 20384, queue = 28649, heur = -9.0, depth = 9
iter = 20385, queue = 28648, heur = -9.0, depth = 9
iter = 20386, queue = 28649, heur = -9.0, depth = 9
iter = 20387, queue = 28648, heur = -9.0, depth = 10
iter = 20388, queue = 28649, heur = -9.0, depth = 9
iter = 20389, queue = 28649, heur = -9.0, depth = 9
iter = 20390, queue = 28650, heur = -9.0, depth = 9
iter = 20391, queue = 28649, heur = -9.0, depth = 10
iter = 20392, queue = 28652, heur = -9.0, depth = 9
iter = 20393, queue = 28654, heur = -9.0, depth = 9
iter = 20394, queue = 28654, heur = -9.0, depth = 9
iter = 20395, queue = 28654, heur = -9.0, depth = 9
iter = 20396, queue = 28657, heur = -9.0, depth = 10
iter = 20397, queue = 28658, heur = -9.0, depth = 10
iter = 20398, queue = 28659, heur = -9.0, depth = 9
iter = 20399, queue = 28661, heur = -9.0, depth = 9
iter = 20400, queue = 28663, heur = -9.0, depth = 9
iter = 20401, queue = 28663, heur = -9.0, depth = 9
iter = 20402, queue = 28664, heur = -9.0, depth = 9
iter = 20403, queue = 28665, heur = -9.0, depth = 9
iter = 20404, queue = 28667, heur = -9.0, depth = 9
iter = 20405, queue = 28670, heur = -9.0, depth = 9
iter = 20406, queue = 28672, heur = -9.0, depth = 9
iter = 20407, queue = 28671, heur = -9.0, depth = 9
iter = 20408, queue = 28673, heur = -9.0, depth = 9
iter = 20409, queue = 28674, heur = -9.0, depth = 9
iter = 20410, queue = 28675, heur = -9.0, depth = 9
iter = 20411, queue = 28675, heur = -9.0, depth = 9
iter = 20412, queue = 28676, heur = -9.0, depth = 9
```

```
iter = 20413, queue = 28678, heur = -9.0, depth = 9
iter = 20414, queue = 28680, heur = -9.0, depth = 9
iter = 20415, queue = 28683, heur = -9.0, depth = 10
iter = 20416, queue = 28684, heur = -9.0, depth = 9
iter = 20417, queue = 28687, heur = -9.0, depth = 9
iter = 20418, queue = 28688, heur = -9.0, depth = 9
iter = 20419, queue = 28687, heur = -9.0, depth = 9
iter = 20420, queue = 28688, heur = -9.0, depth = 9
iter = 20421, queue = 28691, heur = -9.0, depth = 9
iter = 20422, queue = 28692, heur = -9.0, depth = 9
iter = 20423, queue = 28693, heur = -9.0, depth = 10
iter = 20424, queue = 28692, heur = -9.0, depth = 9
iter = 20425, queue = 28693, heur = -9.0, depth = 9
iter = 20426, queue = 28696, heur = -9.0, depth = 9
iter = 20427, queue = 28697, heur = -9.0, depth = 9
iter = 20428, queue = 28698, heur = -9.0, depth = 9
iter = 20429, queue = 28701, heur = -9.0, depth = 9
iter = 20430, queue = 28703, heur = -9.0, depth = 9
iter = 20431, queue = 28704, heur = -9.0, depth = 9
iter = 20432, queue = 28705, heur = -9.0, depth = 9
iter = 20433, queue = 28706, heur = -9.0, depth = 10
iter = 20434, queue = 28709, heur = -9.0, depth = 9
iter = 20435, queue = 28708, heur = -9.0, depth = 9
iter = 20436, queue = 28710, heur = -9.0, depth = 9
iter = 20437, queue = 28712, heur = -9.0, depth = 9
iter = 20438, queue = 28711, heur = -9.0, depth = 10
iter = 20439, queue = 28712, heur = -9.0, depth = 9
iter = 20440, queue = 28711, heur = -9.0, depth = 9
iter = 20441, queue = 28714, heur = -9.0, depth = 9
iter = 20442, queue = 28714, heur = -9.0, depth = 9
iter = 20443, queue = 28715, heur = -9.0, depth = 9
iter = 20444, queue = 28718, heur = -9.0, depth = 9
iter = 20445, queue = 28721, heur = -9.0, depth = 9
iter = 20446, queue = 28722, heur = -9.0, depth = 9
iter = 20447, queue = 28725, heur = -9.0, depth = 9
iter = 20448, queue = 28726, heur = -9.0, depth = 9
iter = 20449, queue = 28727, heur = -9.0, depth = 9
iter = 20450, queue = 28729, heur = -9.0, depth = 9
iter = 20451, queue = 28728, heur = -9.0, depth = 9
iter = 20452, queue = 28728, heur = -9.0, depth = 9
iter = 20453, queue = 28729, heur = -9.0, depth = 9
iter = 20454, queue = 28730, heur = -9.0, depth = 11
iter = 20455, queue = 28732, heur = -9.0, depth = 11
iter = 20456, queue = 28733, heur = -9.0, depth = 9
iter = 20457, queue = 28734, heur = -9.0, depth = 9
iter = 20458, queue = 28735, heur = -9.0, depth = 9
iter = 20459, queue = 28735, heur = -9.0, depth = 9
iter = 20460, queue = 28738, heur = -9.0, depth = 11
iter = 20461, queue = 28739, heur = -9.0, depth = 11
iter = 20462, queue = 28740, heur = -9.0, depth = 9
iter = 20463, queue = 28741, heur = -9.0, depth = 9
iter = 20464, queue = 28743, heur = -9.0, depth = 9
iter = 20465, queue = 28746, heur = -9.0, depth = 9
iter = 20466, queue = 28747, heur = -9.0, depth = 9
iter = 20467, queue = 28748, heur = -9.0, depth = 9
iter = 20468, queue = 28748, heur = -9.0, depth = 9
iter = 20469, queue = 28748, heur = -9.0, depth = 9
iter = 20470, queue = 28748, heur = -9.0, depth = 9
iter = 20471, queue = 28751, heur = -9.0, depth = 9
```

```
iter = 20472, queue = 28753, heur = -9.0, depth = 9
iter = 20473, queue = 28754, heur = -9.0, depth = 11
iter = 20474, queue = 28756, heur = -9.0, depth = 11
iter = 20475, queue = 28759, heur = -9.0, depth = 9
iter = 20476, queue = 28760, heur = -9.0, depth = 9
iter = 20477, queue = 28760, heur = -9.0, depth = 10
iter = 20478, queue = 28761, heur = -9.0, depth = 9
iter = 20479, queue = 28764, heur = -9.0, depth = 9
iter = 20480, queue = 28765, heur = -9.0, depth = 10
iter = 20481, queue = 28765, heur = -9.0, depth = 10
iter = 20482, queue = 28768, heur = -9.0, depth = 9
iter = 20483, queue = 28771, heur = -9.0, depth = 9
iter = 20484, queue = 28772, heur = -9.0, depth = 9
iter = 20485, queue = 28771, heur = -9.0, depth = 9
iter = 20486, queue = 28772, heur = -9.0, depth = 9
iter = 20487, queue = 28772, heur = -9.0, depth = 9
iter = 20488, queue = 28771, heur = -9.0, depth = 9
iter = 20489, queue = 28770, heur = -9.0, depth = 9
iter = 20490, queue = 28770, heur = -9.0, depth = 9
iter = 20491, queue = 28772, heur = -9.0, depth = 10
iter = 20492, queue = 28774, heur = -9.0, depth = 9
iter = 20493, queue = 28775, heur = -9.0, depth = 9
iter = 20494, queue = 28778, heur = -9.0, depth = 9
iter = 20495, queue = 28781, heur = -9.0, depth = 9
iter = 20496, queue = 28780, heur = -9.0, depth = 9
iter = 20497, queue = 28780, heur = -9.0, depth = 9
iter = 20498, queue = 28782, heur = -9.0, depth = 9
iter = 20499, queue = 28784, heur = -9.0, depth = 9
iter = 20500, queue = 28785, heur = -9.0, depth = 9
iter = 20501, queue = 28787, heur = -9.0, depth = 9
iter = 20502, queue = 28788, heur = -9.0, depth = 10
iter = 20503, queue = 28790, heur = -9.0, depth = 9
iter = 20504, queue = 28791, heur = -9.0, depth = 9
iter = 20505, queue = 28790, heur = -9.0, depth = 9
iter = 20506, queue = 28791, heur = -9.0, depth = 10
iter = 20507, queue = 28794, heur = -9.0, depth = 10
iter = 20508, queue = 28795, heur = -9.0, depth = 9
iter = 20509, queue = 28794, heur = -9.0, depth = 9
iter = 20510, queue = 28796, heur = -9.0, depth = 9
iter = 20511, queue = 28799, heur = -9.0, depth = 9
iter = 20512, queue = 28800, heur = -9.0, depth = 9
iter = 20513, queue = 28803, heur = -9.0, depth = 9
iter = 20514, queue = 28806, heur = -9.0, depth = 9
iter = 20515, queue = 28807, heur = -9.0, depth = 9
iter = 20516, queue = 28808, heur = -9.0, depth = 9
iter = 20517, queue = 28808, heur = -9.0, depth = 9
iter = 20518, queue = 28809, heur = -9.0, depth = 9
iter = 20519, queue = 28808, heur = -9.0, depth = 9
iter = 20520, queue = 28808, heur = -9.0, depth = 9
iter = 20521, queue = 28809, heur = -9.0, depth = 9
iter = 20522, queue = 28811, heur = -9.0, depth = 9
iter = 20523, queue = 28812, heur = -9.0, depth = 9
iter = 20524, queue = 28813, heur = -9.0, depth = 9
iter = 20525, queue = 28816, heur = -9.0, depth = 10
iter = 20526, queue = 28817, heur = -9.0, depth = 9
iter = 20527, queue = 28816, heur = -9.0, depth = 9
iter = 20528, queue = 28818, heur = -9.0, depth = 10
iter = 20529, queue = 28820, heur = -9.0, depth = 9
iter = 20530, queue = 28823, heur = -9.0, depth = 9
```

```
iter = 20531, queue = 28825, heur = -9.0, depth = 9
iter = 20532, queue = 28826, heur = -9.0, depth = 9
iter = 20533, queue = 28825, heur = -9.0, depth = 9
iter = 20534, queue = 28825, heur = -9.0, depth = 9
iter = 20535, queue = 28826, heur = -9.0, depth = 9
iter = 20536, queue = 28827, heur = -9.0, depth = 9
iter = 20537, queue = 28829, heur = -9.0, depth = 9
iter = 20538, queue = 28831, heur = -9.0, depth = 9
iter = 20539, queue = 28833, heur = -9.0, depth = 9
iter = 20540, queue = 28835, heur = -9.0, depth = 9
iter = 20541, queue = 28838, heur = -9.0, depth = 9
iter = 20542, queue = 28839, heur = -9.0, depth = 9
iter = 20543, queue = 28839, heur = -9.0, depth = 9
iter = 20544, queue = 28839, heur = -9.0, depth = 9
iter = 20545, queue = 28838, heur = -9.0, depth = 9
iter = 20546, queue = 28840, heur = -9.0, depth = 9
iter = 20547, queue = 28843, heur = -9.0, depth = 9
iter = 20548, queue = 28844, heur = -9.0, depth = 9
iter = 20549, queue = 28844, heur = -9.0, depth = 9
iter = 20550, queue = 28843, heur = -9.0, depth = 9
iter = 20551, queue = 28843, heur = -9.0, depth = 10
iter = 20552, queue = 28843, heur = -9.0, depth = 9
iter = 20553, queue = 28846, heur = -9.0, depth = 9
iter = 20554, queue = 28847, heur = -9.0, depth = 9
iter = 20555, queue = 28848, heur = -9.0, depth = 9
iter = 20556, queue = 28849, heur = -9.0, depth = 9
iter = 20557, queue = 28851, heur = -9.0, depth = 9
iter = 20558, queue = 28852, heur = -9.0, depth = 9
iter = 20559, queue = 28853, heur = -9.0, depth = 9
iter = 20560, queue = 28854, heur = -9.0, depth = 9
iter = 20561, queue = 28856, heur = -9.0, depth = 9
iter = 20562, queue = 28857, heur = -9.0, depth = 9
iter = 20563, queue = 28857, heur = -9.0, depth = 9
iter = 20564, queue = 28857, heur = -9.0, depth = 9
iter = 20565, queue = 28860, heur = -9.0, depth = 9
iter = 20566, queue = 28860, heur = -9.0, depth = 9
iter = 20567, queue = 28863, heur = -9.0, depth = 9
iter = 20568, queue = 28862, heur = -9.0, depth = 9
iter = 20569, queue = 28862, heur = -9.0, depth = 9
iter = 20570, queue = 28863, heur = -9.0, depth = 9
iter = 20571, queue = 28864, heur = -9.0, depth = 10
iter = 20572, queue = 28864, heur = -9.0, depth = 9
iter = 20573, queue = 28863, heur = -9.0, depth = 9
iter = 20574, queue = 28865, heur = -9.0, depth = 9
iter = 20575, queue = 28867, heur = -9.0, depth = 9
iter = 20576, queue = 28869, heur = -9.0, depth = 9
iter = 20577, queue = 28871, heur = -9.0, depth = 9
iter = 20578, queue = 28872, heur = -9.0, depth = 9
iter = 20579, queue = 28875, heur = -9.0, depth = 9
iter = 20580, queue = 28877, heur = -9.0, depth = 9
iter = 20581, queue = 28880, heur = -9.0, depth = 9
iter = 20582, queue = 28881, heur = -9.0, depth = 9
iter = 20583, queue = 28881, heur = -9.0, depth = 9
iter = 20584, queue = 28881, heur = -9.0, depth = 9
iter = 20585, queue = 28884, heur = -9.0, depth = 9
iter = 20586, queue = 28885, heur = -9.0, depth = 9
iter = 20587, queue = 28886, heur = -9.0, depth = 9
iter = 20588, queue = 28887, heur = -9.0, depth = 10
iter = 20589, queue = 28888, heur = -9.0, depth = 9
```

```
iter = 20590, queue = 28888, heur = -9.0, depth = 9
iter = 20591, queue = 28889, heur = -9.0, depth = 10
iter = 20592, queue = 28890, heur = -9.0, depth = 10
iter = 20593, queue = 28892, heur = -9.0, depth = 9
iter = 20594, queue = 28894, heur = -9.0, depth = 10
iter = 20595, queue = 28897, heur = -9.0, depth = 10
iter = 20596, queue = 28899, heur = -9.0, depth = 9
iter = 20597, queue = 28900, heur = -9.0, depth = 9
iter = 20598, queue = 28901, heur = -9.0, depth = 9
iter = 20599, queue = 28902, heur = -9.0, depth = 10
iter = 20600, queue = 28903, heur = -9.0, depth = 9
iter = 20601, queue = 28905, heur = -9.0, depth = 9
iter = 20602, queue = 28904, heur = -9.0, depth = 10
iter = 20603, queue = 28907, heur = -9.0, depth = 10
iter = 20604, queue = 28910, heur = -9.0, depth = 9
iter = 20605, queue = 28909, heur = -9.0, depth = 9
iter = 20606, queue = 28911, heur = -9.0, depth = 9
iter = 20607, queue = 28914, heur = -9.0, depth = 9
iter = 20608, queue = 28917, heur = -9.0, depth = 9
iter = 20609, queue = 28916, heur = -9.0, depth = 9
iter = 20610, queue = 28919, heur = -9.0, depth = 9
iter = 20611, queue = 28918, heur = -9.0, depth = 9
iter = 20612, queue = 28919, heur = -9.0, depth = 9
iter = 20613, queue = 28921, heur = -9.0, depth = 9
iter = 20614, queue = 28920, heur = -9.0, depth = 9
iter = 20615, queue = 28919, heur = -9.0, depth = 9
iter = 20616, queue = 28918, heur = -9.0, depth = 9
iter = 20617, queue = 28919, heur = -9.0, depth = 9
iter = 20618, queue = 28921, heur = -9.0, depth = 9
iter = 20619, queue = 28920, heur = -9.0, depth = 9
iter = 20620, queue = 28923, heur = -9.0, depth = 9
iter = 20621, queue = 28925, heur = -9.0, depth = 10
iter = 20622, queue = 28926, heur = -9.0, depth = 10
iter = 20623, queue = 28928, heur = -9.0, depth = 9
iter = 20624, queue = 28928, heur = -9.0, depth = 10
iter = 20625, queue = 28931, heur = -9.0, depth = 11
iter = 20626, queue = 28931, heur = -9.0, depth = 9
iter = 20627, queue = 28931, heur = -9.0, depth = 10
iter = 20628, queue = 28932, heur = -9.0, depth = 9
iter = 20629, queue = 28933, heur = -9.0, depth = 9
iter = 20630, queue = 28933, heur = -9.0, depth = 9
iter = 20631, queue = 28932, heur = -9.0, depth = 10
iter = 20632, queue = 28933, heur = -9.0, depth = 9
iter = 20633, queue = 28933, heur = -9.0, depth = 9
iter = 20634, queue = 28934, heur = -9.0, depth = 9
iter = 20635, queue = 28933, heur = -9.0, depth = 9
iter = 20636, queue = 28932, heur = -9.0, depth = 9
iter = 20637, queue = 28931, heur = -9.0, depth = 9
iter = 20638, queue = 28932, heur = -9.0, depth = 9
iter = 20639, queue = 28935, heur = -9.0, depth = 9
iter = 20640, queue = 28935, heur = -9.0, depth = 9
iter = 20641, queue = 28937, heur = -9.0, depth = 9
iter = 20642, queue = 28938, heur = -9.0, depth = 9
iter = 20643, queue = 28939, heur = -9.0, depth = 9
iter = 20644, queue = 28941, heur = -9.0, depth = 9
iter = 20645, queue = 28942, heur = -9.0, depth = 9
iter = 20646, queue = 28945, heur = -9.0, depth = 9
iter = 20647, queue = 28944, heur = -9.0, depth = 9
iter = 20648, queue = 28945, heur = -9.0, depth = 9
```

```
iter = 20649, queue = 28945, heur = -9.0, depth = 9
iter = 20650, queue = 28947, heur = -9.0, depth = 9
iter = 20651, queue = 28948, heur = -9.0, depth = 9
iter = 20652, queue = 28948, heur = -9.0, depth = 9
iter = 20653, queue = 28948, heur = -9.0, depth = 9
iter = 20654, queue = 28949, heur = -9.0, depth = 9
iter = 20655, queue = 28949, heur = -9.0, depth = 9
iter = 20656, queue = 28949, heur = -9.0, depth = 9
iter = 20657, queue = 28951, heur = -9.0, depth = 9
iter = 20658, queue = 28954, heur = -9.0, depth = 9
iter = 20659, queue = 28956, heur = -9.0, depth = 9
iter = 20660, queue = 28957, heur = -9.0, depth = 9
iter = 20661, queue = 28956, heur = -9.0, depth = 9
iter = 20662, queue = 28956, heur = -9.0, depth = 9
iter = 20663, queue = 28956, heur = -9.0, depth = 9
iter = 20664, queue = 28956, heur = -9.0, depth = 9
iter = 20665, queue = 28958, heur = -9.0, depth = 9
iter = 20666, queue = 28958, heur = -9.0, depth = 9
iter = 20667, queue = 28957, heur = -9.0, depth = 9
iter = 20668, queue = 28957, heur = -9.0, depth = 9
iter = 20669, queue = 28957, heur = -9.0, depth = 9
iter = 20670, queue = 28959, heur = -9.0, depth = 9
iter = 20671, queue = 28960, heur = -9.0, depth = 9
iter = 20672, queue = 28961, heur = -9.0, depth = 9
iter = 20673, queue = 28962, heur = -9.0, depth = 9
iter = 20674, queue = 28963, heur = -9.0, depth = 9
iter = 20675, queue = 28962, heur = -9.0, depth = 9
iter = 20676, queue = 28962, heur = -9.0, depth = 9
iter = 20677, queue = 28962, heur = -9.0, depth = 9
iter = 20678, queue = 28962, heur = -9.0, depth = 9
iter = 20679, queue = 28962, heur = -9.0, depth = 9
iter = 20680, queue = 28963, heur = -9.0, depth = 9
iter = 20681, queue = 28964, heur = -9.0, depth = 9
iter = 20682, queue = 28965, heur = -9.0, depth = 9
iter = 20683, queue = 28966, heur = -9.0, depth = 9
iter = 20684, queue = 28967, heur = -9.0, depth = 9
iter = 20685, queue = 28968, heur = -9.0, depth = 9
iter = 20686, queue = 28969, heur = -9.0, depth = 9
iter = 20687, queue = 28970, heur = -9.0, depth = 9
iter = 20688, queue = 28971, heur = -9.0, depth = 9
iter = 20689, queue = 28972, heur = -9.0, depth = 9
iter = 20690, queue = 28972, heur = -9.0, depth = 9
iter = 20691, queue = 28971, heur = -9.0, depth = 9
iter = 20692, queue = 28971, heur = -9.0, depth = 9
iter = 20693, queue = 28972, heur = -9.0, depth = 9
iter = 20694, queue = 28972, heur = -9.0, depth = 10
iter = 20695, queue = 28975, heur = -9.0, depth = 9
iter = 20696, queue = 28977, heur = -9.0, depth = 9
iter = 20697, queue = 28979, heur = -9.0, depth = 9
iter = 20698, queue = 28980, heur = -9.0, depth = 9
iter = 20699, queue = 28979, heur = -9.0, depth = 9
iter = 20700, queue = 28980, heur = -9.0, depth = 9
iter = 20701, queue = 28981, heur = -9.0, depth = 9
iter = 20702, queue = 28983, heur = -9.0, depth = 9
iter = 20703, queue = 28984, heur = -9.0, depth = 9
iter = 20704, queue = 28987, heur = -9.0, depth = 9
iter = 20705, queue = 28986, heur = -9.0, depth = 9
iter = 20706, queue = 28988, heur = -9.0, depth = 9
iter = 20707, queue = 28989, heur = -9.0, depth = 10
```

```
iter = 20708, queue = 28990, heur = -9.0, depth = 9
iter = 20709, queue = 28991, heur = -9.0, depth = 9
iter = 20710, queue = 28993, heur = -9.0, depth = 9
iter = 20711, queue = 28994, heur = -9.0, depth = 9
iter = 20712, queue = 28995, heur = -9.0, depth = 9
iter = 20713, queue = 28996, heur = -9.0, depth = 9
iter = 20714, queue = 28996, heur = -9.0, depth = 9
iter = 20715, queue = 28999, heur = -9.0, depth = 9
iter = 20716, queue = 29001, heur = -9.0, depth = 9
iter = 20717, queue = 29002, heur = -9.0, depth = 9
iter = 20718, queue = 29003, heur = -9.0, depth = 9
iter = 20719, queue = 29004, heur = -9.0, depth = 9
iter = 20720, queue = 29007, heur = -9.0, depth = 9
iter = 20721, queue = 29008, heur = -9.0, depth = 9
iter = 20722, queue = 29010, heur = -9.0, depth = 9
iter = 20723, queue = 29013, heur = -9.0, depth = 10
iter = 20724, queue = 29014, heur = -9.0, depth = 9
iter = 20725, queue = 29017, heur = -9.0, depth = 9
iter = 20726, queue = 29018, heur = -9.0, depth = 9
iter = 20727, queue = 29019, heur = -9.0, depth = 9
iter = 20728, queue = 29019, heur = -9.0, depth = 9
iter = 20729, queue = 29020, heur = -9.0, depth = 9
iter = 20730, queue = 29021, heur = -9.0, depth = 9
iter = 20731, queue = 29022, heur = -9.0, depth = 9
iter = 20732, queue = 29024, heur = -9.0, depth = 9
iter = 20733, queue = 29024, heur = -9.0, depth = 9
iter = 20734, queue = 29025, heur = -9.0, depth = 9
iter = 20735, queue = 29026, heur = -9.0, depth = 9
iter = 20736, queue = 29027, heur = -9.0, depth = 9
iter = 20737, queue = 29030, heur = -9.0, depth = 9
iter = 20738, queue = 29031, heur = -9.0, depth = 9
iter = 20739, queue = 29032, heur = -9.0, depth = 9
iter = 20740, queue = 29033, heur = -9.0, depth = 9
iter = 20741, queue = 29035, heur = -9.0, depth = 9
iter = 20742, queue = 29034, heur = -9.0, depth = 10
iter = 20743, queue = 29036, heur = -9.0, depth = 9
iter = 20744, queue = 29035, heur = -9.0, depth = 9
iter = 20745, queue = 29037, heur = -9.0, depth = 9
iter = 20746, queue = 29036, heur = -9.0, depth = 9
iter = 20747, queue = 29037, heur = -9.0, depth = 9
iter = 20748, queue = 29036, heur = -9.0, depth = 9
iter = 20749, queue = 29037, heur = -9.0, depth = 9
iter = 20750, queue = 29040, heur = -9.0, depth = 9
iter = 20751, queue = 29041, heur = -9.0, depth = 9
iter = 20752, queue = 29044, heur = -9.0, depth = 9
iter = 20753, queue = 29045, heur = -9.0, depth = 9
iter = 20754, queue = 29044, heur = -9.0, depth = 9
iter = 20755, queue = 29043, heur = -9.0, depth = 9
iter = 20756, queue = 29042, heur = -9.0, depth = 9
iter = 20757, queue = 29042, heur = -9.0, depth = 9
iter = 20758, queue = 29043, heur = -9.0, depth = 9
iter = 20759, queue = 29044, heur = -9.0, depth = 10
iter = 20760, queue = 29047, heur = -9.0, depth = 9
iter = 20761, queue = 29047, heur = -9.0, depth = 10
iter = 20762, queue = 29048, heur = -9.0, depth = 10
iter = 20763, queue = 29049, heur = -9.0, depth = 9
iter = 20764, queue = 29050, heur = -9.0, depth = 9
iter = 20765, queue = 29051, heur = -9.0, depth = 9
iter = 20766, queue = 29052, heur = -9.0, depth = 9
```

```
iter = 20767, queue = 29053, heur = -9.0, depth = 9
iter = 20768, queue = 29054, heur = -9.0, depth = 9
iter = 20769, queue = 29057, heur = -9.0, depth = 9
iter = 20770, queue = 29059, heur = -9.0, depth = 9
iter = 20771, queue = 29060, heur = -9.0, depth = 9
iter = 20772, queue = 29059, heur = -9.0, depth = 9
iter = 20773, queue = 29061, heur = -9.0, depth = 9
iter = 20774, queue = 29062, heur = -9.0, depth = 10
iter = 20775, queue = 29063, heur = -9.0, depth = 10
iter = 20776, queue = 29065, heur = -9.0, depth = 9
iter = 20777, queue = 29065, heur = -9.0, depth = 10
iter = 20778, queue = 29065, heur = -9.0, depth = 10
iter = 20779, queue = 29066, heur = -9.0, depth = 9
iter = 20780, queue = 29068, heur = -9.0, depth = 9
iter = 20781, queue = 29069, heur = -9.0, depth = 10
iter = 20782, queue = 29071, heur = -9.0, depth = 10
iter = 20783, queue = 29074, heur = -9.0, depth = 9
iter = 20784, queue = 29075, heur = -9.0, depth = 9
iter = 20785, queue = 29074, heur = -9.0, depth = 10
iter = 20786, queue = 29073, heur = -9.0, depth = 9
iter = 20787, queue = 29072, heur = -9.0, depth = 9
iter = 20788, queue = 29072, heur = -9.0, depth = 9
iter = 20789, queue = 29073, heur = -9.0, depth = 10
iter = 20790, queue = 29074, heur = -9.0, depth = 9
iter = 20791, queue = 29074, heur = -9.0, depth = 9
iter = 20792, queue = 29074, heur = -9.0, depth = 9
iter = 20793, queue = 29074, heur = -9.0, depth = 9
iter = 20794, queue = 29075, heur = -9.0, depth = 9
iter = 20795, queue = 29078, heur = -9.0, depth = 9
iter = 20796, queue = 29078, heur = -9.0, depth = 9
iter = 20797, queue = 29079, heur = -9.0, depth = 9
iter = 20798, queue = 29081, heur = -9.0, depth = 9
iter = 20799, queue = 29084, heur = -9.0, depth = 9
iter = 20800, queue = 29085, heur = -9.0, depth = 9
iter = 20801, queue = 29086, heur = -9.0, depth = 9
iter = 20802, queue = 29087, heur = -9.0, depth = 9
iter = 20803, queue = 29088, heur = -9.0, depth = 9
iter = 20804, queue = 29089, heur = -9.0, depth = 9
iter = 20805, queue = 29089, heur = -9.0, depth = 9
iter = 20806, queue = 29090, heur = -9.0, depth = 9
iter = 20807, queue = 29089, heur = -9.0, depth = 9
iter = 20808, queue = 29088, heur = -9.0, depth = 9
iter = 20809, queue = 29087, heur = -9.0, depth = 9
iter = 20810, queue = 29088, heur = -9.0, depth = 9
iter = 20811, queue = 29089, heur = -9.0, depth = 10
iter = 20812, queue = 29090, heur = -9.0, depth = 9
iter = 20813, queue = 29090, heur = -9.0, depth = 10
iter = 20814, queue = 29091, heur = -9.0, depth = 9
iter = 20815, queue = 29094, heur = -9.0, depth = 9
iter = 20816, queue = 29095, heur = -9.0, depth = 10
iter = 20817, queue = 29094, heur = -9.0, depth = 9
iter = 20818, queue = 29095, heur = -9.0, depth = 9
iter = 20819, queue = 29094, heur = -9.0, depth = 9
iter = 20820, queue = 29093, heur = -9.0, depth = 9
iter = 20821, queue = 29093, heur = -9.0, depth = 9
iter = 20822, queue = 29095, heur = -9.0, depth = 9
iter = 20823, queue = 29096, heur = -9.0, depth = 9
iter = 20824, queue = 29095, heur = -9.0, depth = 9
iter = 20825, queue = 29097, heur = -9.0, depth = 9
```

```
iter = 20826, queue = 29100, heur = -9.0, depth = 9
iter = 20827, queue = 29100, heur = -9.0, depth = 9
iter = 20828, queue = 29102, heur = -9.0, depth = 9
iter = 20829, queue = 29103, heur = -9.0, depth = 9
iter = 20830, queue = 29106, heur = -9.0, depth = 9
iter = 20831, queue = 29107, heur = -9.0, depth = 10
iter = 20832, queue = 29108, heur = -9.0, depth = 9
iter = 20833, queue = 29109, heur = -9.0, depth = 9
iter = 20834, queue = 29108, heur = -9.0, depth = 9
iter = 20835, queue = 29109, heur = -9.0, depth = 9
iter = 20836, queue = 29110, heur = -9.0, depth = 9
iter = 20837, queue = 29111, heur = -9.0, depth = 9
iter = 20838, queue = 29114, heur = -9.0, depth = 9
iter = 20839, queue = 29116, heur = -9.0, depth = 9
iter = 20840, queue = 29117, heur = -9.0, depth = 10
iter = 20841, queue = 29120, heur = -9.0, depth = 10
iter = 20842, queue = 29120, heur = -9.0, depth = 9
iter = 20843, queue = 29121, heur = -9.0, depth = 10
iter = 20844, queue = 29122, heur = -9.0, depth = 9
iter = 20845, queue = 29121, heur = -9.0, depth = 9
iter = 20846, queue = 29122, heur = -9.0, depth = 9
iter = 20847, queue = 29123, heur = -9.0, depth = 9
iter = 20848, queue = 29125, heur = -9.0, depth = 9
iter = 20849, queue = 29125, heur = -9.0, depth = 9
iter = 20850, queue = 29126, heur = -9.0, depth = 9
iter = 20851, queue = 29127, heur = -9.0, depth = 9
iter = 20852, queue = 29128, heur = -9.0, depth = 9
iter = 20853, queue = 29127, heur = -9.0, depth = 9
iter = 20854, queue = 29130, heur = -9.0, depth = 9
iter = 20855, queue = 29131, heur = -9.0, depth = 9
iter = 20856, queue = 29131, heur = -9.0, depth = 9
iter = 20857, queue = 29132, heur = -9.0, depth = 10
iter = 20858, queue = 29132, heur = -9.0, depth = 9
iter = 20859, queue = 29133, heur = -9.0, depth = 9
iter = 20860, queue = 29134, heur = -9.0, depth = 9
iter = 20861, queue = 29136, heur = -9.0, depth = 9
iter = 20862, queue = 29137, heur = -9.0, depth = 9
iter = 20863, queue = 29140, heur = -9.0, depth = 9
iter = 20864, queue = 29139, heur = -9.0, depth = 9
iter = 20865, queue = 29140, heur = -9.0, depth = 9
iter = 20866, queue = 29140, heur = -9.0, depth = 9
iter = 20867, queue = 29140, heur = -9.0, depth = 9
iter = 20868, queue = 29139, heur = -9.0, depth = 9
iter = 20869, queue = 29139, heur = -9.0, depth = 9
iter = 20870, queue = 29140, heur = -9.0, depth = 9
iter = 20871, queue = 29143, heur = -9.0, depth = 9
iter = 20872, queue = 29145, heur = -9.0, depth = 9
iter = 20873, queue = 29147, heur = -9.0, depth = 9
iter = 20874, queue = 29148, heur = -9.0, depth = 10
iter = 20875, queue = 29150, heur = -9.0, depth = 9
iter = 20876, queue = 29150, heur = -9.0, depth = 9
iter = 20877, queue = 29150, heur = -9.0, depth = 9
iter = 20878, queue = 29153, heur = -9.0, depth = 9
iter = 20879, queue = 29154, heur = -9.0, depth = 9
iter = 20880, queue = 29156, heur = -9.0, depth = 9
iter = 20881, queue = 29156, heur = -9.0, depth = 9
iter = 20882, queue = 29159, heur = -9.0, depth = 9
iter = 20883, queue = 29160, heur = -9.0, depth = 9
iter = 20884, queue = 29161, heur = -9.0, depth = 9
```

```
iter = 20885, queue = 29162, heur = -9.0, depth = 9
iter = 20886, queue = 29162, heur = -9.0, depth = 9
iter = 20887, queue = 29165, heur = -9.0, depth = 9
iter = 20888, queue = 29164, heur = -9.0, depth = 9
iter = 20889, queue = 29164, heur = -9.0, depth = 9
iter = 20890, queue = 29164, heur = -9.0, depth = 9
iter = 20891, queue = 29165, heur = -9.0, depth = 9
iter = 20892, queue = 29167, heur = -9.0, depth = 10
iter = 20893, queue = 29166, heur = -9.0, depth = 9
iter = 20894, queue = 29167, heur = -9.0, depth = 9
iter = 20895, queue = 29166, heur = -9.0, depth = 9
iter = 20896, queue = 29166, heur = -9.0, depth = 10
iter = 20897, queue = 29165, heur = -9.0, depth = 9
iter = 20898, queue = 29168, heur = -9.0, depth = 9
iter = 20899, queue = 29169, heur = -9.0, depth = 9
iter = 20900, queue = 29170, heur = -9.0, depth = 9
iter = 20901, queue = 29171, heur = -9.0, depth = 9
iter = 20902, queue = 29172, heur = -9.0, depth = 10
iter = 20903, queue = 29173, heur = -9.0, depth = 9
iter = 20904, queue = 29173, heur = -9.0, depth = 9
iter = 20905, queue = 29174, heur = -9.0, depth = 9
iter = 20906, queue = 29176, heur = -9.0, depth = 9
iter = 20907, queue = 29178, heur = -9.0, depth = 9
iter = 20908, queue = 29181, heur = -9.0, depth = 9
iter = 20909, queue = 29182, heur = -9.0, depth = 10
iter = 20910, queue = 29184, heur = -9.0, depth = 9
iter = 20911, queue = 29184, heur = -9.0, depth = 9
iter = 20912, queue = 29185, heur = -9.0, depth = 10
iter = 20913, queue = 29187, heur = -9.0, depth = 9
iter = 20914, queue = 29186, heur = -9.0, depth = 9
iter = 20915, queue = 29188, heur = -9.0, depth = 9
iter = 20916, queue = 29191, heur = -9.0, depth = 9
iter = 20917, queue = 29192, heur = -9.0, depth = 10
iter = 20918, queue = 29194, heur = -9.0, depth = 9
iter = 20919, queue = 29195, heur = -9.0, depth = 9
iter = 20920, queue = 29196, heur = -9.0, depth = 9
iter = 20921, queue = 29198, heur = -9.0, depth = 9
iter = 20922, queue = 29199, heur = -9.0, depth = 9
iter = 20923, queue = 29200, heur = -9.0, depth = 9
iter = 20924, queue = 29199, heur = -9.0, depth = 9
iter = 20925, queue = 29202, heur = -9.0, depth = 9
iter = 20926, queue = 29203, heur = -9.0, depth = 9
iter = 20927, queue = 29202, heur = -9.0, depth = 9
iter = 20928, queue = 29201, heur = -9.0, depth = 9
iter = 20929, queue = 29203, heur = -9.0, depth = 9
iter = 20930, queue = 29202, heur = -9.0, depth = 9
iter = 20931, queue = 29203, heur = -9.0, depth = 9
iter = 20932, queue = 29205, heur = -9.0, depth = 9
iter = 20933, queue = 29207, heur = -9.0, depth = 9
iter = 20934, queue = 29209, heur = -9.0, depth = 9
iter = 20935, queue = 29212, heur = -9.0, depth = 9
iter = 20936, queue = 29213, heur = -9.0, depth = 9
iter = 20937, queue = 29216, heur = -9.0, depth = 9
iter = 20938, queue = 29218, heur = -9.0, depth = 9
iter = 20939, queue = 29219, heur = -9.0, depth = 9
iter = 20940, queue = 29221, heur = -9.0, depth = 9
iter = 20941, queue = 29224, heur = -9.0, depth = 9
iter = 20942, queue = 29225, heur = -9.0, depth = 9
iter = 20943, queue = 29226, heur = -9.0, depth = 9
```

```
iter = 20944, queue = 29228, heur = -9.0, depth = 9
iter = 20945, queue = 29231, heur = -9.0, depth = 9
iter = 20946, queue = 29230, heur = -9.0, depth = 9
iter = 20947, queue = 29231, heur = -9.0, depth = 9
iter = 20948, queue = 29233, heur = -9.0, depth = 9
iter = 20949, queue = 29233, heur = -9.0, depth = 10
iter = 20950, queue = 29234, heur = -9.0, depth = 10
iter = 20951, queue = 29235, heur = -9.0, depth = 9
iter = 20952, queue = 29238, heur = -9.0, depth = 9
iter = 20953, queue = 29240, heur = -9.0, depth = 10
iter = 20954, queue = 29240, heur = -9.0, depth = 9
iter = 20955, queue = 29239, heur = -9.0, depth = 9
iter = 20956, queue = 29238, heur = -9.0, depth = 9
iter = 20957, queue = 29238, heur = -9.0, depth = 9
iter = 20958, queue = 29239, heur = -9.0, depth = 9
iter = 20959, queue = 29239, heur = -9.0, depth = 9
iter = 20960, queue = 29240, heur = -9.0, depth = 9
iter = 20961, queue = 29240, heur = -9.0, depth = 9
iter = 20962, queue = 29241, heur = -9.0, depth = 9
iter = 20963, queue = 29242, heur = -9.0, depth = 10
iter = 20964, queue = 29242, heur = -9.0, depth = 9
iter = 20965, queue = 29243, heur = -9.0, depth = 9
iter = 20966, queue = 29244, heur = -9.0, depth = 9
iter = 20967, queue = 29245, heur = -9.0, depth = 10
iter = 20968, queue = 29247, heur = -9.0, depth = 9
iter = 20969, queue = 29250, heur = -9.0, depth = 9
iter = 20970, queue = 29253, heur = -9.0, depth = 9
iter = 20971, queue = 29255, heur = -9.0, depth = 9
iter = 20972, queue = 29257, heur = -9.0, depth = 9
iter = 20973, queue = 29258, heur = -9.0, depth = 9
iter = 20974, queue = 29259, heur = -9.0, depth = 9
iter = 20975, queue = 29258, heur = -9.0, depth = 9
iter = 20976, queue = 29257, heur = -9.0, depth = 9
iter = 20977, queue = 29258, heur = -9.0, depth = 10
iter = 20978, queue = 29259, heur = -9.0, depth = 9
iter = 20979, queue = 29260, heur = -9.0, depth = 9
iter = 20980, queue = 29259, heur = -9.0, depth = 9
iter = 20981, queue = 29259, heur = -9.0, depth = 9
iter = 20982, queue = 29259, heur = -9.0, depth = 10
iter = 20983, queue = 29260, heur = -9.0, depth = 9
iter = 20984, queue = 29261, heur = -9.0, depth = 9
iter = 20985, queue = 29260, heur = -9.0, depth = 9
iter = 20986, queue = 29261, heur = -9.0, depth = 9
iter = 20987, queue = 29262, heur = -9.0, depth = 9
iter = 20988, queue = 29262, heur = -9.0, depth = 10
iter = 20989, queue = 29263, heur = -9.0, depth = 9
iter = 20990, queue = 29262, heur = -9.0, depth = 9
iter = 20991, queue = 29263, heur = -9.0, depth = 9
iter = 20992, queue = 29265, heur = -9.0, depth = 9
iter = 20993, queue = 29266, heur = -9.0, depth = 9
iter = 20994, queue = 29266, heur = -9.0, depth = 9
iter = 20995, queue = 29266, heur = -9.0, depth = 9
iter = 20996, queue = 29267, heur = -9.0, depth = 9
iter = 20997, queue = 29270, heur = -9.0, depth = 9
iter = 20998, queue = 29273, heur = -9.0, depth = 9
iter = 20999, queue = 29274, heur = -9.0, depth = 9
iter = 21000, queue = 29274, heur = -9.0, depth = 9
iter = 21001, queue = 29274, heur = -9.0, depth = 9
iter = 21002, queue = 29275, heur = -9.0, depth = 9
```

```
iter = 21003, queue = 29275, heur = -9.0, depth = 9
iter = 21004, queue = 29275, heur = -9.0, depth = 9
iter = 21005, queue = 29276, heur = -9.0, depth = 9
iter = 21006, queue = 29277, heur = -9.0, depth = 9
iter = 21007, queue = 29280, heur = -9.0, depth = 10
iter = 21008, queue = 29281, heur = -9.0, depth = 10
iter = 21009, queue = 29283, heur = -9.0, depth = 9
iter = 21010, queue = 29286, heur = -9.0, depth = 10
iter = 21011, queue = 29289, heur = -9.0, depth = 9
iter = 21012, queue = 29291, heur = -9.0, depth = 9
iter = 21013, queue = 29292, heur = -9.0, depth = 9
iter = 21014, queue = 29291, heur = -9.0, depth = 9
iter = 21015, queue = 29292, heur = -9.0, depth = 10
iter = 21016, queue = 29294, heur = -9.0, depth = 10
iter = 21017, queue = 29295, heur = -9.0, depth = 9
iter = 21018, queue = 29296, heur = -9.0, depth = 10
iter = 21019, queue = 29295, heur = -9.0, depth = 10
iter = 21020, queue = 29296, heur = -9.0, depth = 9
iter = 21021, queue = 29297, heur = -9.0, depth = 9
iter = 21022, queue = 29300, heur = -9.0, depth = 9
iter = 21023, queue = 29301, heur = -9.0, depth = 9
iter = 21024, queue = 29301, heur = -9.0, depth = 10
iter = 21025, queue = 29304, heur = -9.0, depth = 9
iter = 21026, queue = 29305, heur = -9.0, depth = 9
iter = 21027, queue = 29305, heur = -9.0, depth = 9
iter = 21028, queue = 29304, heur = -9.0, depth = 9
iter = 21029, queue = 29303, heur = -9.0, depth = 9
iter = 21030, queue = 29306, heur = -9.0, depth = 9
iter = 21031, queue = 29308, heur = -9.0, depth = 9
iter = 21032, queue = 29307, heur = -9.0, depth = 9
iter = 21033, queue = 29308, heur = -9.0, depth = 9
iter = 21034, queue = 29310, heur = -9.0, depth = 10
iter = 21035, queue = 29313, heur = -9.0, depth = 10
iter = 21036, queue = 29314, heur = -9.0, depth = 9
iter = 21037, queue = 29316, heur = -9.0, depth = 9
iter = 21038, queue = 29317, heur = -9.0, depth = 10
iter = 21039, queue = 29318, heur = -9.0, depth = 9
iter = 21040, queue = 29321, heur = -9.0, depth = 10
iter = 21041, queue = 29322, heur = -9.0, depth = 9
iter = 21042, queue = 29324, heur = -9.0, depth = 10
iter = 21043, queue = 29325, heur = -9.0, depth = 9
iter = 21044, queue = 29325, heur = -9.0, depth = 9
iter = 21045, queue = 29324, heur = -9.0, depth = 9
iter = 21046, queue = 29325, heur = -9.0, depth = 10
iter = 21047, queue = 29328, heur = -9.0, depth = 9
iter = 21048, queue = 29329, heur = -9.0, depth = 10
iter = 21049, queue = 29330, heur = -9.0, depth = 10
iter = 21050, queue = 29331, heur = -9.0, depth = 9
iter = 21051, queue = 29332, heur = -9.0, depth = 9
iter = 21052, queue = 29332, heur = -9.0, depth = 10
iter = 21053, queue = 29333, heur = -9.0, depth = 10
iter = 21054, queue = 29335, heur = -9.0, depth = 9
iter = 21055, queue = 29336, heur = -9.0, depth = 10
iter = 21056, queue = 29335, heur = -9.0, depth = 9
iter = 21057, queue = 29336, heur = -9.0, depth = 9
iter = 21058, queue = 29339, heur = -9.0, depth = 9
iter = 21059, queue = 29342, heur = -9.0, depth = 10
iter = 21060, queue = 29345, heur = -9.0, depth = 9
iter = 21061, queue = 29348, heur = -9.0, depth = 9
```

```
iter = 21062, queue = 29347, heur = -9.0, depth = 9
iter = 21063, queue = 29348, heur = -9.0, depth = 9
iter = 21064, queue = 29349, heur = -9.0, depth = 9
iter = 21065, queue = 29352, heur = -9.0, depth = 9
iter = 21066, queue = 29355, heur = -9.0, depth = 9
iter = 21067, queue = 29358, heur = -9.0, depth = 9
iter = 21068, queue = 29360, heur = -9.0, depth = 9
iter = 21069, queue = 29363, heur = -9.0, depth = 9
iter = 21070, queue = 29364, heur = -9.0, depth = 9
iter = 21071, queue = 29363, heur = -9.0, depth = 9
iter = 21072, queue = 29365, heur = -9.0, depth = 9
iter = 21073, queue = 29365, heur = -9.0, depth = 10
iter = 21074, queue = 29366, heur = -9.0, depth = 9
iter = 21075, queue = 29366, heur = -9.0, depth = 10
iter = 21076, queue = 29368, heur = -9.0, depth = 10
iter = 21077, queue = 29371, heur = -9.0, depth = 9
iter = 21078, queue = 29374, heur = -9.0, depth = 10
iter = 21079, queue = 29375, heur = -9.0, depth = 9
iter = 21080, queue = 29374, heur = -9.0, depth = 9
iter = 21081, queue = 29375, heur = -9.0, depth = 10
iter = 21082, queue = 29378, heur = -9.0, depth = 9
iter = 21083, queue = 29381, heur = -9.0, depth = 10
iter = 21084, queue = 29384, heur = -9.0, depth = 9
iter = 21085, queue = 29385, heur = -9.0, depth = 9
iter = 21086, queue = 29386, heur = -9.0, depth = 9
iter = 21087, queue = 29385, heur = -9.0, depth = 9
iter = 21088, queue = 29386, heur = -9.0, depth = 9
iter = 21089, queue = 29387, heur = -9.0, depth = 9
iter = 21090, queue = 29387, heur = -9.0, depth = 9
iter = 21091, queue = 29388, heur = -9.0, depth = 9
iter = 21092, queue = 29390, heur = -9.0, depth = 9
iter = 21093, queue = 29390, heur = -9.0, depth = 9
iter = 21094, queue = 29391, heur = -9.0, depth = 9
iter = 21095, queue = 29394, heur = -9.0, depth = 9
iter = 21096, queue = 29394, heur = -9.0, depth = 9
iter = 21097, queue = 29396, heur = -9.0, depth = 9
iter = 21098, queue = 29396, heur = -9.0, depth = 9
iter = 21099, queue = 29396, heur = -9.0, depth = 9
iter = 21100, queue = 29397, heur = -9.0, depth = 9
iter = 21101, queue = 29400, heur = -9.0, depth = 9
iter = 21102, queue = 29399, heur = -9.0, depth = 9
iter = 21103, queue = 29400, heur = -9.0, depth = 9
iter = 21104, queue = 29401, heur = -9.0, depth = 9
iter = 21105, queue = 29402, heur = -9.0, depth = 9
iter = 21106, queue = 29401, heur = -9.0, depth = 9
iter = 21107, queue = 29402, heur = -9.0, depth = 9
iter = 21108, queue = 29403, heur = -9.0, depth = 9
iter = 21109, queue = 29404, heur = -9.0, depth = 9
iter = 21110, queue = 29405, heur = -9.0, depth = 9
iter = 21111, queue = 29406, heur = -9.0, depth = 10
iter = 21112, queue = 29408, heur = -9.0, depth = 10
iter = 21113, queue = 29409, heur = -9.0, depth = 9
iter = 21114, queue = 29411, heur = -9.0, depth = 9
iter = 21115, queue = 29411, heur = -9.0, depth = 9
iter = 21116, queue = 29412, heur = -9.0, depth = 9
iter = 21117, queue = 29415, heur = -9.0, depth = 9
iter = 21118, queue = 29414, heur = -9.0, depth = 9
iter = 21119, queue = 29415, heur = -9.0, depth = 9
iter = 21120, queue = 29416, heur = -9.0, depth = 9
```

```
iter = 21121, queue = 29417, heur = -9.0, depth = 9
iter = 21122, queue = 29418, heur = -9.0, depth = 9
iter = 21123, queue = 29421, heur = -9.0, depth = 9
iter = 21124, queue = 29422, heur = -9.0, depth = 9
iter = 21125, queue = 29423, heur = -9.0, depth = 9
iter = 21126, queue = 29424, heur = -9.0, depth = 9
iter = 21127, queue = 29424, heur = -9.0, depth = 9
iter = 21128, queue = 29425, heur = -9.0, depth = 9
iter = 21129, queue = 29424, heur = -9.0, depth = 9
iter = 21130, queue = 29426, heur = -9.0, depth = 9
iter = 21131, queue = 29428, heur = -9.0, depth = 9
iter = 21132, queue = 29431, heur = -9.0, depth = 9
iter = 21133, queue = 29432, heur = -9.0, depth = 9
iter = 21134, queue = 29433, heur = -9.0, depth = 9
iter = 21135, queue = 29435, heur = -9.0, depth = 9
iter = 21136, queue = 29434, heur = -9.0, depth = 9
iter = 21137, queue = 29435, heur = -9.0, depth = 9
iter = 21138, queue = 29434, heur = -9.0, depth = 9
iter = 21139, queue = 29435, heur = -9.0, depth = 9
iter = 21140, queue = 29436, heur = -9.0, depth = 9
iter = 21141, queue = 29437, heur = -9.0, depth = 9
iter = 21142, queue = 29436, heur = -9.0, depth = 9
iter = 21143, queue = 29437, heur = -9.0, depth = 9
iter = 21144, queue = 29440, heur = -9.0, depth = 9
iter = 21145, queue = 29442, heur = -9.0, depth = 9
iter = 21146, queue = 29444, heur = -9.0, depth = 9
iter = 21147, queue = 29443, heur = -9.0, depth = 9
iter = 21148, queue = 29443, heur = -9.0, depth = 9
iter = 21149, queue = 29444, heur = -9.0, depth = 9
iter = 21150, queue = 29445, heur = -9.0, depth = 9
iter = 21151, queue = 29445, heur = -9.0, depth = 9
iter = 21152, queue = 29446, heur = -9.0, depth = 9
iter = 21153, queue = 29445, heur = -9.0, depth = 9
iter = 21154, queue = 29445, heur = -9.0, depth = 9
iter = 21155, queue = 29446, heur = -9.0, depth = 9
iter = 21156, queue = 29447, heur = -9.0, depth = 9
iter = 21157, queue = 29446, heur = -9.0, depth = 9
iter = 21158, queue = 29448, heur = -9.0, depth = 9
iter = 21159, queue = 29449, heur = -9.0, depth = 9
iter = 21160, queue = 29452, heur = -9.0, depth = 9
iter = 21161, queue = 29452, heur = -9.0, depth = 9
iter = 21162, queue = 29455, heur = -9.0, depth = 9
iter = 21163, queue = 29458, heur = -9.0, depth = 9
iter = 21164, queue = 29459, heur = -9.0, depth = 9
iter = 21165, queue = 29458, heur = -9.0, depth = 9
iter = 21166, queue = 29461, heur = -9.0, depth = 9
iter = 21167, queue = 29462, heur = -9.0, depth = 9
iter = 21168, queue = 29463, heur = -9.0, depth = 9
iter = 21169, queue = 29465, heur = -9.0, depth = 9
iter = 21170, queue = 29468, heur = -9.0, depth = 9
iter = 21171, queue = 29467, heur = -9.0, depth = 10
iter = 21172, queue = 29466, heur = -9.0, depth = 9
iter = 21173, queue = 29466, heur = -9.0, depth = 9
iter = 21174, queue = 29469, heur = -9.0, depth = 9
iter = 21175, queue = 29472, heur = -9.0, depth = 9
iter = 21176, queue = 29471, heur = -9.0, depth = 9
iter = 21177, queue = 29474, heur = -9.0, depth = 9
iter = 21178, queue = 29475, heur = -9.0, depth = 9
iter = 21179, queue = 29475, heur = -9.0, depth = 9
```

```
iter = 21180, queue = 29475, heur = -9.0, depth = 9
iter = 21181, queue = 29476, heur = -9.0, depth = 9
iter = 21182, queue = 29477, heur = -9.0, depth = 9
iter = 21183, queue = 29477, heur = -9.0, depth = 9
iter = 21184, queue = 29480, heur = -9.0, depth = 9
iter = 21185, queue = 29483, heur = -9.0, depth = 9
iter = 21186, queue = 29484, heur = -9.0, depth = 9
iter = 21187, queue = 29487, heur = -9.0, depth = 9
iter = 21188, queue = 29486, heur = -9.0, depth = 9
iter = 21189, queue = 29487, heur = -9.0, depth = 9
iter = 21190, queue = 29488, heur = -9.0, depth = 10
iter = 21191, queue = 29490, heur = -9.0, depth = 9
iter = 21192, queue = 29491, heur = -9.0, depth = 11
iter = 21193, queue = 29493, heur = -9.0, depth = 9
iter = 21194, queue = 29496, heur = -9.0, depth = 9
iter = 21195, queue = 29497, heur = -9.0, depth = 9
iter = 21196, queue = 29499, heur = -9.0, depth = 9
iter = 21197, queue = 29500, heur = -9.0, depth = 9
iter = 21198, queue = 29499, heur = -9.0, depth = 9
iter = 21199, queue = 29498, heur = -9.0, depth = 9
iter = 21200, queue = 29499, heur = -9.0, depth = 9
iter = 21201, queue = 29500, heur = -9.0, depth = 9
iter = 21202, queue = 29503, heur = -9.0, depth = 9
iter = 21203, queue = 29504, heur = -9.0, depth = 9
iter = 21204, queue = 29505, heur = -9.0, depth = 9
iter = 21205, queue = 29504, heur = -9.0, depth = 9
iter = 21206, queue = 29507, heur = -9.0, depth = 9
iter = 21207, queue = 29508, heur = -9.0, depth = 9
iter = 21208, queue = 29507, heur = -9.0, depth = 9
iter = 21209, queue = 29509, heur = -9.0, depth = 9
iter = 21210, queue = 29510, heur = -9.0, depth = 9
iter = 21211, queue = 29511, heur = -9.0, depth = 9
iter = 21212, queue = 29511, heur = -9.0, depth = 9
iter = 21213, queue = 29512, heur = -9.0, depth = 9
iter = 21214, queue = 29513, heur = -9.0, depth = 9
iter = 21215, queue = 29514, heur = -9.0, depth = 9
iter = 21216, queue = 29517, heur = -9.0, depth = 9
iter = 21217, queue = 29516, heur = -9.0, depth = 9
iter = 21218, queue = 29518, heur = -9.0, depth = 9
iter = 21219, queue = 29521, heur = -9.0, depth = 10
iter = 21220, queue = 29522, heur = -9.0, depth = 9
iter = 21221, queue = 29523, heur = -9.0, depth = 9
iter = 21222, queue = 29522, heur = -9.0, depth = 9
iter = 21223, queue = 29522, heur = -9.0, depth = 9
iter = 21224, queue = 29521, heur = -9.0, depth = 9
iter = 21225, queue = 29523, heur = -9.0, depth = 9
iter = 21226, queue = 29525, heur = -9.0, depth = 9
iter = 21227, queue = 29526, heur = -9.0, depth = 9
iter = 21228, queue = 29527, heur = -9.0, depth = 9
iter = 21229, queue = 29528, heur = -9.0, depth = 9
iter = 21230, queue = 29528, heur = -9.0, depth = 9
iter = 21231, queue = 29531, heur = -9.0, depth = 9
iter = 21232, queue = 29533, heur = -9.0, depth = 9
iter = 21233, queue = 29534, heur = -9.0, depth = 9
iter = 21234, queue = 29535, heur = -9.0, depth = 9
iter = 21235, queue = 29536, heur = -9.0, depth = 9
iter = 21236, queue = 29539, heur = -9.0, depth = 9
iter = 21237, queue = 29540, heur = -9.0, depth = 9
iter = 21238, queue = 29541, heur = -9.0, depth = 9
```

```
iter = 21239, queue = 29542, heur = -9.0, depth = 12
iter = 21240, queue = 29543, heur = -9.0, depth = 9
iter = 21241, queue = 29544, heur = -9.0, depth = 9
iter = 21242, queue = 29547, heur = -9.0, depth = 9
iter = 21243, queue = 29550, heur = -9.0, depth = 9
iter = 21244, queue = 29550, heur = -9.0, depth = 9
iter = 21245, queue = 29552, heur = -9.0, depth = 9
iter = 21246, queue = 29553, heur = -9.0, depth = 9
iter = 21247, queue = 29554, heur = -9.0, depth = 9
iter = 21248, queue = 29555, heur = -9.0, depth = 9
iter = 21249, queue = 29556, heur = -9.0, depth = 9
iter = 21250, queue = 29559, heur = -9.0, depth = 9
iter = 21251, queue = 29561, heur = -9.0, depth = 9
iter = 21252, queue = 29562, heur = -9.0, depth = 9
iter = 21253, queue = 29565, heur = -9.0, depth = 9
iter = 21254, queue = 29568, heur = -9.0, depth = 9
iter = 21255, queue = 29569, heur = -9.0, depth = 9
iter = 21256, queue = 29572, heur = -9.0, depth = 9
iter = 21257, queue = 29573, heur = -9.0, depth = 9
iter = 21258, queue = 29576, heur = -9.0, depth = 9
iter = 21259, queue = 29576, heur = -9.0, depth = 11
iter = 21260, queue = 29577, heur = -9.0, depth = 9
iter = 21261, queue = 29580, heur = -9.0, depth = 9
iter = 21262, queue = 29583, heur = -9.0, depth = 9
iter = 21263, queue = 29584, heur = -9.0, depth = 9
iter = 21264, queue = 29584, heur = -9.0, depth = 9
iter = 21265, queue = 29585, heur = -9.0, depth = 9
iter = 21266, queue = 29588, heur = -9.0, depth = 9
iter = 21267, queue = 29589, heur = -9.0, depth = 9
iter = 21268, queue = 29592, heur = -9.0, depth = 9
iter = 21269, queue = 29593, heur = -9.0, depth = 9
iter = 21270, queue = 29596, heur = -9.0, depth = 9
iter = 21271, queue = 29595, heur = -9.0, depth = 9
iter = 21272, queue = 29595, heur = -9.0, depth = 10
iter = 21273, queue = 29595, heur = -9.0, depth = 9
iter = 21274, queue = 29598, heur = -9.0, depth = 9
iter = 21275, queue = 29598, heur = -9.0, depth = 9
iter = 21276, queue = 29599, heur = -9.0, depth = 9
iter = 21277, queue = 29600, heur = -9.0, depth = 9
iter = 21278, queue = 29601, heur = -9.0, depth = 9
iter = 21279, queue = 29600, heur = -9.0, depth = 9
iter = 21280, queue = 29603, heur = -9.0, depth = 9
iter = 21281, queue = 29605, heur = -9.0, depth = 9
iter = 21282, queue = 29605, heur = -9.0, depth = 9
iter = 21283, queue = 29605, heur = -9.0, depth = 11
iter = 21284, queue = 29605, heur = -9.0, depth = 9
iter = 21285, queue = 29605, heur = -9.0, depth = 9
iter = 21286, queue = 29607, heur = -9.0, depth = 9
iter = 21287, queue = 29610, heur = -9.0, depth = 11
iter = 21288, queue = 29611, heur = -9.0, depth = 9
iter = 21289, queue = 29612, heur = -9.0, depth = 9
iter = 21290, queue = 29613, heur = -9.0, depth = 10
iter = 21291, queue = 29614, heur = -9.0, depth = 10
iter = 21292, queue = 29615, heur = -9.0, depth = 9
iter = 21293, queue = 29616, heur = -9.0, depth = 9
iter = 21294, queue = 29617, heur = -9.0, depth = 10
iter = 21295, queue = 29617, heur = -9.0, depth = 9
iter = 21296, queue = 29618, heur = -9.0, depth = 9
iter = 21297, queue = 29619, heur = -9.0, depth = 9
```

```
iter = 21298, queue = 29618, heur = -9.0, depth = 9
iter = 21299, queue = 29619, heur = -9.0, depth = 9
iter = 21300, queue = 29618, heur = -9.0, depth = 9
iter = 21301, queue = 29619, heur = -9.0, depth = 9
iter = 21302, queue = 29622, heur = -9.0, depth = 9
iter = 21303, queue = 29623, heur = -9.0, depth = 9
iter = 21304, queue = 29624, heur = -9.0, depth = 9
iter = 21305, queue = 29624, heur = -9.0, depth = 9
iter = 21306, queue = 29625, heur = -9.0, depth = 9
iter = 21307, queue = 29624, heur = -9.0, depth = 10
iter = 21308, queue = 29626, heur = -9.0, depth = 10
iter = 21309, queue = 29626, heur = -9.0, depth = 9
iter = 21310, queue = 29628, heur = -9.0, depth = 10
iter = 21311, queue = 29630, heur = -9.0, depth = 9
iter = 21312, queue = 29631, heur = -9.0, depth = 9
iter = 21313, queue = 29632, heur = -9.0, depth = 9
iter = 21314, queue = 29631, heur = -9.0, depth = 9
iter = 21315, queue = 29633, heur = -9.0, depth = 9
iter = 21316, queue = 29634, heur = -9.0, depth = 9
iter = 21317, queue = 29635, heur = -9.0, depth = 9
iter = 21318, queue = 29637, heur = -9.0, depth = 9
iter = 21319, queue = 29636, heur = -9.0, depth = 9
iter = 21320, queue = 29639, heur = -9.0, depth = 9
iter = 21321, queue = 29642, heur = -9.0, depth = 9
iter = 21322, queue = 29643, heur = -9.0, depth = 9
iter = 21323, queue = 29644, heur = -9.0, depth = 9
iter = 21324, queue = 29646, heur = -9.0, depth = 9
iter = 21325, queue = 29647, heur = -9.0, depth = 9
iter = 21326, queue = 29647, heur = -9.0, depth = 9
iter = 21327, queue = 29646, heur = -9.0, depth = 9
iter = 21328, queue = 29647, heur = -9.0, depth = 9
iter = 21329, queue = 29648, heur = -9.0, depth = 9
iter = 21330, queue = 29649, heur = -9.0, depth = 9
iter = 21331, queue = 29650, heur = -9.0, depth = 9
iter = 21332, queue = 29649, heur = -9.0, depth = 9
iter = 21333, queue = 29649, heur = -9.0, depth = 9
iter = 21334, queue = 29649, heur = -9.0, depth = 9
iter = 21335, queue = 29652, heur = -9.0, depth = 9
iter = 21336, queue = 29653, heur = -9.0, depth = 9
iter = 21337, queue = 29654, heur = -9.0, depth = 9
iter = 21338, queue = 29657, heur = -9.0, depth = 9
iter = 21339, queue = 29658, heur = -9.0, depth = 9
iter = 21340, queue = 29659, heur = -9.0, depth = 9
iter = 21341, queue = 29660, heur = -9.0, depth = 9
iter = 21342, queue = 29659, heur = -9.0, depth = 10
iter = 21343, queue = 29661, heur = -9.0, depth = 9
iter = 21344, queue = 29662, heur = -9.0, depth = 9
iter = 21345, queue = 29663, heur = -9.0, depth = 9
iter = 21346, queue = 29662, heur = -9.0, depth = 9
iter = 21347, queue = 29661, heur = -9.0, depth = 9
iter = 21348, queue = 29660, heur = -9.0, depth = 9
iter = 21349, queue = 29662, heur = -9.0, depth = 9
iter = 21350, queue = 29662, heur = -9.0, depth = 9
iter = 21351, queue = 29664, heur = -9.0, depth = 9
iter = 21352, queue = 29667, heur = -9.0, depth = 9
iter = 21353, queue = 29667, heur = -9.0, depth = 9
iter = 21354, queue = 29669, heur = -9.0, depth = 9
iter = 21355, queue = 29670, heur = -9.0, depth = 9
iter = 21356, queue = 29671, heur = -9.0, depth = 9
```

```
iter = 21357, queue = 29674, heur = -9.0, depth = 9
iter = 21358, queue = 29674, heur = -9.0, depth = 9
iter = 21359, queue = 29676, heur = -9.0, depth = 9
iter = 21360, queue = 29677, heur = -9.0, depth = 9
iter = 21361, queue = 29680, heur = -9.0, depth = 9
iter = 21362, queue = 29682, heur = -9.0, depth = 9
iter = 21363, queue = 29681, heur = -9.0, depth = 9
iter = 21364, queue = 29681, heur = -9.0, depth = 9
iter = 21365, queue = 29682, heur = -9.0, depth = 9
iter = 21366, queue = 29682, heur = -9.0, depth = 9
iter = 21367, queue = 29683, heur = -9.0, depth = 9
iter = 21368, queue = 29682, heur = -9.0, depth = 9
iter = 21369, queue = 29683, heur = -9.0, depth = 9
iter = 21370, queue = 29685, heur = -9.0, depth = 9
iter = 21371, queue = 29687, heur = -9.0, depth = 9
iter = 21372, queue = 29688, heur = -9.0, depth = 9
iter = 21373, queue = 29691, heur = -9.0, depth = 9
iter = 21374, queue = 29694, heur = -9.0, depth = 9
iter = 21375, queue = 29693, heur = -9.0, depth = 9
iter = 21376, queue = 29694, heur = -9.0, depth = 9
iter = 21377, queue = 29695, heur = -9.0, depth = 9
iter = 21378, queue = 29696, heur = -9.0, depth = 10
iter = 21379, queue = 29696, heur = -9.0, depth = 9
iter = 21380, queue = 29697, heur = -9.0, depth = 9
iter = 21381, queue = 29696, heur = -9.0, depth = 9
iter = 21382, queue = 29698, heur = -9.0, depth = 9
iter = 21383, queue = 29699, heur = -9.0, depth = 9
iter = 21384, queue = 29700, heur = -9.0, depth = 9
iter = 21385, queue = 29701, heur = -9.0, depth = 9
iter = 21386, queue = 29703, heur = -9.0, depth = 9
iter = 21387, queue = 29704, heur = -9.0, depth = 9
iter = 21388, queue = 29705, heur = -9.0, depth = 9
iter = 21389, queue = 29706, heur = -9.0, depth = 9
iter = 21390, queue = 29707, heur = -9.0, depth = 9
iter = 21391, queue = 29710, heur = -9.0, depth = 9
iter = 21392, queue = 29710, heur = -9.0, depth = 9
iter = 21393, queue = 29711, heur = -9.0, depth = 9
iter = 21394, queue = 29712, heur = -9.0, depth = 9
iter = 21395, queue = 29711, heur = -9.0, depth = 9
iter = 21396, queue = 29712, heur = -9.0, depth = 9
iter = 21397, queue = 29713, heur = -9.0, depth = 9
iter = 21398, queue = 29713, heur = -9.0, depth = 10
iter = 21399, queue = 29714, heur = -9.0, depth = 9
iter = 21400, queue = 29717, heur = -9.0, depth = 9
iter = 21401, queue = 29718, heur = -9.0, depth = 9
iter = 21402, queue = 29719, heur = -9.0, depth = 10
iter = 21403, queue = 29721, heur = -9.0, depth = 9
iter = 21404, queue = 29723, heur = -9.0, depth = 9
iter = 21405, queue = 29724, heur = -9.0, depth = 9
iter = 21406, queue = 29725, heur = -9.0, depth = 9
iter = 21407, queue = 29725, heur = -9.0, depth = 9
iter = 21408, queue = 29728, heur = -9.0, depth = 9
iter = 21409, queue = 29728, heur = -9.0, depth = 9
iter = 21410, queue = 29729, heur = -9.0, depth = 9
iter = 21411, queue = 29729, heur = -9.0, depth = 9
iter = 21412, queue = 29728, heur = -9.0, depth = 9
iter = 21413, queue = 29730, heur = -9.0, depth = 9
iter = 21414, queue = 29732, heur = -9.0, depth = 9
iter = 21415, queue = 29733, heur = -9.0, depth = 9
```

```
iter = 21416, queue = 29736, heur = -9.0, depth = 9
iter = 21417, queue = 29738, heur = -9.0, depth = 9
iter = 21418, queue = 29739, heur = -9.0, depth = 9
iter = 21419, queue = 29740, heur = -9.0, depth = 9
iter = 21420, queue = 29741, heur = -9.0, depth = 9
iter = 21421, queue = 29741, heur = -9.0, depth = 9
iter = 21422, queue = 29740, heur = -9.0, depth = 9
iter = 21423, queue = 29742, heur = -9.0, depth = 9
iter = 21424, queue = 29743, heur = -9.0, depth = 9
iter = 21425, queue = 29745, heur = -9.0, depth = 9
iter = 21426, queue = 29748, heur = -9.0, depth = 9
iter = 21427, queue = 29749, heur = -9.0, depth = 9
iter = 21428, queue = 29749, heur = -9.0, depth = 9
iter = 21429, queue = 29752, heur = -9.0, depth = 9
iter = 21430, queue = 29752, heur = -9.0, depth = 9
iter = 21431, queue = 29753, heur = -9.0, depth = 9
iter = 21432, queue = 29754, heur = -9.0, depth = 9
iter = 21433, queue = 29753, heur = -9.0, depth = 9
iter = 21434, queue = 29753, heur = -9.0, depth = 9
iter = 21435, queue = 29753, heur = -9.0, depth = 9
iter = 21436, queue = 29753, heur = -9.0, depth = 9
iter = 21437, queue = 29754, heur = -9.0, depth = 9
iter = 21438, queue = 29755, heur = -9.0, depth = 9
iter = 21439, queue = 29754, heur = -9.0, depth = 9
iter = 21440, queue = 29757, heur = -9.0, depth = 9
iter = 21441, queue = 29759, heur = -9.0, depth = 9
iter = 21442, queue = 29762, heur = -9.0, depth = 9
iter = 21443, queue = 29764, heur = -9.0, depth = 9
iter = 21444, queue = 29766, heur = -9.0, depth = 9
iter = 21445, queue = 29768, heur = -9.0, depth = 9
iter = 21446, queue = 29769, heur = -9.0, depth = 9
iter = 21447, queue = 29769, heur = -9.0, depth = 9
iter = 21448, queue = 29770, heur = -9.0, depth = 9
iter = 21449, queue = 29769, heur = -9.0, depth = 9
iter = 21450, queue = 29768, heur = -9.0, depth = 9
iter = 21451, queue = 29770, heur = -9.0, depth = 9
iter = 21452, queue = 29771, heur = -9.0, depth = 9
iter = 21453, queue = 29770, heur = -9.0, depth = 9
iter = 21454, queue = 29770, heur = -9.0, depth = 9
iter = 21455, queue = 29770, heur = -9.0, depth = 9
iter = 21456, queue = 29771, heur = -9.0, depth = 9
iter = 21457, queue = 29773, heur = -9.0, depth = 9
iter = 21458, queue = 29776, heur = -9.0, depth = 9
iter = 21459, queue = 29777, heur = -9.0, depth = 9
iter = 21460, queue = 29778, heur = -9.0, depth = 9
iter = 21461, queue = 29781, heur = -9.0, depth = 9
iter = 21462, queue = 29780, heur = -9.0, depth = 9
iter = 21463, queue = 29783, heur = -9.0, depth = 9
iter = 21464, queue = 29783, heur = -9.0, depth = 9
iter = 21465, queue = 29785, heur = -9.0, depth = 9
iter = 21466, queue = 29786, heur = -9.0, depth = 9
iter = 21467, queue = 29789, heur = -9.0, depth = 9
iter = 21468, queue = 29792, heur = -9.0, depth = 9
iter = 21469, queue = 29795, heur = -9.0, depth = 9
iter = 21470, queue = 29796, heur = -9.0, depth = 9
iter = 21471, queue = 29799, heur = -9.0, depth = 9
iter = 21472, queue = 29800, heur = -9.0, depth = 9
iter = 21473, queue = 29800, heur = -9.0, depth = 9
iter = 21474, queue = 29799, heur = -9.0, depth = 9
```

```
iter = 21475, queue = 29801, heur = -9.0, depth = 9
iter = 21476, queue = 29804, heur = -9.0, depth = 9
iter = 21477, queue = 29805, heur = -9.0, depth = 9
iter = 21478, queue = 29808, heur = -9.0, depth = 9
iter = 21479, queue = 29807, heur = -9.0, depth = 9
iter = 21480, queue = 29808, heur = -9.0, depth = 9
iter = 21481, queue = 29809, heur = -9.0, depth = 9
iter = 21482, queue = 29810, heur = -9.0, depth = 9
iter = 21483, queue = 29811, heur = -9.0, depth = 9
iter = 21484, queue = 29812, heur = -9.0, depth = 9
iter = 21485, queue = 29813, heur = -9.0, depth = 9
iter = 21486, queue = 29815, heur = -9.0, depth = 9
iter = 21487, queue = 29816, heur = -9.0, depth = 9
iter = 21488, queue = 29817, heur = -9.0, depth = 9
iter = 21489, queue = 29817, heur = -9.0, depth = 9
iter = 21490, queue = 29816, heur = -9.0, depth = 9
iter = 21491, queue = 29818, heur = -9.0, depth = 9
iter = 21492, queue = 29818, heur = -9.0, depth = 9
iter = 21493, queue = 29820, heur = -9.0, depth = 9
iter = 21494, queue = 29823, heur = -9.0, depth = 9
iter = 21495, queue = 29824, heur = -9.0, depth = 9
iter = 21496, queue = 29825, heur = -9.0, depth = 9
iter = 21497, queue = 29827, heur = -9.0, depth = 9
iter = 21498, queue = 29829, heur = -9.0, depth = 9
iter = 21499, queue = 29829, heur = -9.0, depth = 9
iter = 21500, queue = 29830, heur = -9.0, depth = 9
iter = 21501, queue = 29829, heur = -9.0, depth = 9
iter = 21502, queue = 29832, heur = -9.0, depth = 9
iter = 21503, queue = 29835, heur = -9.0, depth = 9
iter = 21504, queue = 29838, heur = -9.0, depth = 9
iter = 21505, queue = 29837, heur = -9.0, depth = 9
iter = 21506, queue = 29838, heur = -9.0, depth = 9
iter = 21507, queue = 29841, heur = -9.0, depth = 9
iter = 21508, queue = 29842, heur = -9.0, depth = 9
iter = 21509, queue = 29842, heur = -9.0, depth = 9
iter = 21510, queue = 29843, heur = -9.0, depth = 9
iter = 21511, queue = 29844, heur = -9.0, depth = 9
iter = 21512, queue = 29846, heur = -9.0, depth = 9
iter = 21513, queue = 29846, heur = -9.0, depth = 9
iter = 21514, queue = 29847, heur = -9.0, depth = 9
iter = 21515, queue = 29848, heur = -9.0, depth = 9
iter = 21516, queue = 29849, heur = -9.0, depth = 9
iter = 21517, queue = 29852, heur = -9.0, depth = 9
iter = 21518, queue = 29853, heur = -9.0, depth = 9
iter = 21519, queue = 29854, heur = -9.0, depth = 9
iter = 21520, queue = 29853, heur = -9.0, depth = 9
iter = 21521, queue = 29855, heur = -9.0, depth = 9
iter = 21522, queue = 29856, heur = -9.0, depth = 9
iter = 21523, queue = 29857, heur = -9.0, depth = 9
iter = 21524, queue = 29858, heur = -9.0, depth = 9
iter = 21525, queue = 29861, heur = -9.0, depth = 9
iter = 21526, queue = 29862, heur = -9.0, depth = 9
iter = 21527, queue = 29865, heur = -9.0, depth = 10
iter = 21528, queue = 29865, heur = -9.0, depth = 9
iter = 21529, queue = 29866, heur = -9.0, depth = 9
iter = 21530, queue = 29867, heur = -9.0, depth = 9
iter = 21531, queue = 29868, heur = -9.0, depth = 9
iter = 21532, queue = 29869, heur = -9.0, depth = 9
iter = 21533, queue = 29869, heur = -9.0, depth = 9
```

```
iter = 21534, queue = 29870, heur = -9.0, depth = 9
iter = 21535, queue = 29869, heur = -9.0, depth = 9
iter = 21536, queue = 29872, heur = -9.0, depth = 9
iter = 21537, queue = 29874, heur = -9.0, depth = 9
iter = 21538, queue = 29874, heur = -9.0, depth = 9
iter = 21539, queue = 29874, heur = -9.0, depth = 9
iter = 21540, queue = 29875, heur = -9.0, depth = 9
iter = 21541, queue = 29874, heur = -9.0, depth = 9
iter = 21542, queue = 29876, heur = -9.0, depth = 9
iter = 21543, queue = 29876, heur = -9.0, depth = 9
iter = 21544, queue = 29876, heur = -9.0, depth = 9
iter = 21545, queue = 29878, heur = -9.0, depth = 9
iter = 21546, queue = 29877, heur = -9.0, depth = 9
iter = 21547, queue = 29879, heur = -9.0, depth = 9
iter = 21548, queue = 29881, heur = -9.0, depth = 9
iter = 21549, queue = 29883, heur = -9.0, depth = 9
iter = 21550, queue = 29883, heur = -9.0, depth = 9
iter = 21551, queue = 29886, heur = -9.0, depth = 9
iter = 21552, queue = 29889, heur = -9.0, depth = 9
iter = 21553, queue = 29892, heur = -9.0, depth = 9
iter = 21554, queue = 29893, heur = -9.0, depth = 9
iter = 21555, queue = 29894, heur = -9.0, depth = 9
iter = 21556, queue = 29895, heur = -9.0, depth = 9
iter = 21557, queue = 29898, heur = -9.0, depth = 9
iter = 21558, queue = 29897, heur = -9.0, depth = 9
iter = 21559, queue = 29897, heur = -9.0, depth = 9
iter = 21560, queue = 29898, heur = -9.0, depth = 9
iter = 21561, queue = 29899, heur = -9.0, depth = 9
iter = 21562, queue = 29900, heur = -9.0, depth = 9
iter = 21563, queue = 29901, heur = -9.0, depth = 10
iter = 21564, queue = 29904, heur = -9.0, depth = 9
iter = 21565, queue = 29903, heur = -9.0, depth = 9
iter = 21566, queue = 29903, heur = -9.0, depth = 9
iter = 21567, queue = 29904, heur = -9.0, depth = 9
iter = 21568, queue = 29906, heur = -9.0, depth = 9
iter = 21569, queue = 29907, heur = -9.0, depth = 9
iter = 21570, queue = 29906, heur = -9.0, depth = 9
iter = 21571, queue = 29907, heur = -9.0, depth = 9
iter = 21572, queue = 29908, heur = -9.0, depth = 9
iter = 21573, queue = 29907, heur = -9.0, depth = 9
iter = 21574, queue = 29908, heur = -9.0, depth = 9
iter = 21575, queue = 29909, heur = -9.0, depth = 9
iter = 21576, queue = 29912, heur = -9.0, depth = 9
iter = 21577, queue = 29913, heur = -9.0, depth = 9
iter = 21578, queue = 29914, heur = -9.0, depth = 9
iter = 21579, queue = 29917, heur = -9.0, depth = 9
iter = 21580, queue = 29917, heur = -9.0, depth = 9
iter = 21581, queue = 29918, heur = -9.0, depth = 9
iter = 21582, queue = 29919, heur = -9.0, depth = 9
iter = 21583, queue = 29922, heur = -9.0, depth = 9
iter = 21584, queue = 29925, heur = -9.0, depth = 9
iter = 21585, queue = 29926, heur = -9.0, depth = 9
iter = 21586, queue = 29925, heur = -9.0, depth = 9
iter = 21587, queue = 29926, heur = -9.0, depth = 9
iter = 21588, queue = 29925, heur = -9.0, depth = 9
iter = 21589, queue = 29926, heur = -9.0, depth = 9
iter = 21590, queue = 29928, heur = -9.0, depth = 9
iter = 21591, queue = 29929, heur = -9.0, depth = 9
iter = 21592, queue = 29930, heur = -9.0, depth = 9
```

```
iter = 21593, queue = 29932, heur = -9.0, depth = 9
iter = 21594, queue = 29933, heur = -9.0, depth = 9
iter = 21595, queue = 29936, heur = -9.0, depth = 9
iter = 21596, queue = 29939, heur = -9.0, depth = 9
iter = 21597, queue = 29940, heur = -9.0, depth = 9
iter = 21598, queue = 29941, heur = -9.0, depth = 9
iter = 21599, queue = 29942, heur = -9.0, depth = 9
iter = 21600, queue = 29943, heur = -9.0, depth = 9
iter = 21601, queue = 29944, heur = -9.0, depth = 9
iter = 21602, queue = 29945, heur = -9.0, depth = 9
iter = 21603, queue = 29945, heur = -9.0, depth = 9
iter = 21604, queue = 29948, heur = -9.0, depth = 9
iter = 21605, queue = 29949, heur = -9.0, depth = 9
iter = 21606, queue = 29950, heur = -9.0, depth = 9
iter = 21607, queue = 29950, heur = -9.0, depth = 9
iter = 21608, queue = 29951, heur = -9.0, depth = 10
iter = 21609, queue = 29950, heur = -9.0, depth = 9
iter = 21610, queue = 29949, heur = -9.0, depth = 9
iter = 21611, queue = 29951, heur = -9.0, depth = 9
iter = 21612, queue = 29954, heur = -9.0, depth = 9
iter = 21613, queue = 29956, heur = -9.0, depth = 9
iter = 21614, queue = 29957, heur = -9.0, depth = 9
iter = 21615, queue = 29957, heur = -9.0, depth = 9
iter = 21616, queue = 29959, heur = -9.0, depth = 9
iter = 21617, queue = 29959, heur = -9.0, depth = 9
iter = 21618, queue = 29960, heur = -9.0, depth = 9
iter = 21619, queue = 29961, heur = -9.0, depth = 9
iter = 21620, queue = 29960, heur = -9.0, depth = 9
iter = 21621, queue = 29961, heur = -9.0, depth = 9
iter = 21622, queue = 29964, heur = -9.0, depth = 9
iter = 21623, queue = 29966, heur = -9.0, depth = 10
iter = 21624, queue = 29968, heur = -9.0, depth = 9
iter = 21625, queue = 29967, heur = -9.0, depth = 9
iter = 21626, queue = 29970, heur = -9.0, depth = 9
iter = 21627, queue = 29973, heur = -9.0, depth = 9
iter = 21628, queue = 29975, heur = -9.0, depth = 9
iter = 21629, queue = 29976, heur = -9.0, depth = 9
iter = 21630, queue = 29977, heur = -9.0, depth = 9
iter = 21631, queue = 29978, heur = -9.0, depth = 9
iter = 21632, queue = 29980, heur = -9.0, depth = 9
iter = 21633, queue = 29982, heur = -9.0, depth = 9
iter = 21634, queue = 29983, heur = -9.0, depth = 9
iter = 21635, queue = 29983, heur = -9.0, depth = 9
iter = 21636, queue = 29984, heur = -9.0, depth = 9
iter = 21637, queue = 29985, heur = -9.0, depth = 9
iter = 21638, queue = 29985, heur = -9.0, depth = 9
iter = 21639, queue = 29985, heur = -9.0, depth = 9
iter = 21640, queue = 29984, heur = -9.0, depth = 9
iter = 21641, queue = 29986, heur = -9.0, depth = 9
iter = 21642, queue = 29987, heur = -9.0, depth = 9
iter = 21643, queue = 29986, heur = -9.0, depth = 9
iter = 21644, queue = 29987, heur = -9.0, depth = 9
iter = 21645, queue = 29986, heur = -9.0, depth = 10
iter = 21646, queue = 29989, heur = -9.0, depth = 9
iter = 21647, queue = 29990, heur = -9.0, depth = 9
iter = 21648, queue = 29991, heur = -9.0, depth = 9
iter = 21649, queue = 29990, heur = -9.0, depth = 9
iter = 21650, queue = 29990, heur = -9.0, depth = 9
iter = 21651, queue = 29991, heur = -9.0, depth = 9
```

```
iter = 21652, queue = 29994, heur = -9.0, depth = 10
iter = 21653, queue = 29996, heur = -9.0, depth = 10
iter = 21654, queue = 29998, heur = -9.0, depth = 9
iter = 21655, queue = 29999, heur = -9.0, depth = 11
iter = 21656, queue = 30000, heur = -9.0, depth = 9
iter = 21657, queue = 30003, heur = -9.0, depth = 10
iter = 21658, queue = 30003, heur = -9.0, depth = 9
iter = 21659, queue = 30003, heur = -9.0, depth = 9
iter = 21660, queue = 30004, heur = -9.0, depth = 10
iter = 21661, queue = 30004, heur = -9.0, depth = 9
iter = 21662, queue = 30005, heur = -9.0, depth = 9
iter = 21663, queue = 30004, heur = -9.0, depth = 9
iter = 21664, queue = 30007, heur = -9.0, depth = 9
iter = 21665, queue = 30008, heur = -9.0, depth = 11
iter = 21666, queue = 30009, heur = -9.0, depth = 9
iter = 21667, queue = 30010, heur = -9.0, depth = 9
iter = 21668, queue = 30011, heur = -9.0, depth = 9
iter = 21669, queue = 30012, heur = -9.0, depth = 9
iter = 21670, queue = 30013, heur = -9.0, depth = 9
iter = 21671, queue = 30014, heur = -9.0, depth = 9
iter = 21672, queue = 30015, heur = -9.0, depth = 9
iter = 21673, queue = 30016, heur = -9.0, depth = 11
iter = 21674, queue = 30017, heur = -9.0, depth = 9
iter = 21675, queue = 30017, heur = -9.0, depth = 9
iter = 21676, queue = 30020, heur = -9.0, depth = 9
iter = 21677, queue = 30021, heur = -9.0, depth = 9
iter = 21678, queue = 30022, heur = -9.0, depth = 9
iter = 21679, queue = 30023, heur = -9.0, depth = 9
iter = 21680, queue = 30024, heur = -9.0, depth = 9
iter = 21681, queue = 30025, heur = -9.0, depth = 10
iter = 21682, queue = 30026, heur = -9.0, depth = 9
iter = 21683, queue = 30027, heur = -9.0, depth = 9
iter = 21684, queue = 30026, heur = -9.0, depth = 10
iter = 21685, queue = 30027, heur = -9.0, depth = 9
iter = 21686, queue = 30028, heur = -9.0, depth = 9
iter = 21687, queue = 30029, heur = -9.0, depth = 9
iter = 21688, queue = 30030, heur = -9.0, depth = 9
iter = 21689, queue = 30030, heur = -9.0, depth = 9
iter = 21690, queue = 30029, heur = -9.0, depth = 9
iter = 21691, queue = 30028, heur = -9.0, depth = 9
iter = 21692, queue = 30029, heur = -9.0, depth = 9
iter = 21693, queue = 30030, heur = -9.0, depth = 9
iter = 21694, queue = 30031, heur = -9.0, depth = 9
iter = 21695, queue = 30031, heur = -9.0, depth = 9
iter = 21696, queue = 30033, heur = -9.0, depth = 9
iter = 21697, queue = 30033, heur = -9.0, depth = 10
iter = 21698, queue = 30035, heur = -9.0, depth = 9
iter = 21699, queue = 30036, heur = -9.0, depth = 9
iter = 21700, queue = 30037, heur = -9.0, depth = 9
iter = 21701, queue = 30040, heur = -9.0, depth = 9
iter = 21702, queue = 30041, heur = -9.0, depth = 9
iter = 21703, queue = 30042, heur = -9.0, depth = 9
iter = 21704, queue = 30043, heur = -9.0, depth = 9
iter = 21705, queue = 30046, heur = -9.0, depth = 9
iter = 21706, queue = 30048, heur = -9.0, depth = 9
iter = 21707, queue = 30049, heur = -9.0, depth = 9
iter = 21708, queue = 30048, heur = -9.0, depth = 9
iter = 21709, queue = 30050, heur = -9.0, depth = 9
iter = 21710, queue = 30053, heur = -9.0, depth = 9
```

```
iter = 21711, queue = 30055, heur = -9.0, depth = 9
iter = 21712, queue = 30056, heur = -9.0, depth = 9
iter = 21713, queue = 30057, heur = -9.0, depth = 9
iter = 21714, queue = 30059, heur = -9.0, depth = 9
iter = 21715, queue = 30058, heur = -9.0, depth = 9
iter = 21716, queue = 30058, heur = -9.0, depth = 9
iter = 21717, queue = 30057, heur = -9.0, depth = 9
iter = 21718, queue = 30059, heur = -9.0, depth = 9
iter = 21719, queue = 30059, heur = -9.0, depth = 9
iter = 21720, queue = 30059, heur = -9.0, depth = 9
iter = 21721, queue = 30061, heur = -9.0, depth = 9
iter = 21722, queue = 30062, heur = -9.0, depth = 9
iter = 21723, queue = 30061, heur = -9.0, depth = 9
iter = 21724, queue = 30062, heur = -9.0, depth = 9
iter = 21725, queue = 30063, heur = -9.0, depth = 10
iter = 21726, queue = 30064, heur = -9.0, depth = 9
iter = 21727, queue = 30065, heur = -9.0, depth = 10
iter = 21728, queue = 30064, heur = -9.0, depth = 10
iter = 21729, queue = 30065, heur = -9.0, depth = 9
iter = 21730, queue = 30067, heur = -9.0, depth = 9
iter = 21731, queue = 30070, heur = -9.0, depth = 9
iter = 21732, queue = 30073, heur = -9.0, depth = 10
iter = 21733, queue = 30076, heur = -9.0, depth = 9
iter = 21734, queue = 30077, heur = -9.0, depth = 10
iter = 21735, queue = 30076, heur = -9.0, depth = 9
iter = 21736, queue = 30077, heur = -9.0, depth = 10
iter = 21737, queue = 30077, heur = -9.0, depth = 10
iter = 21738, queue = 30078, heur = -9.0, depth = 10
iter = 21739, queue = 30078, heur = -9.0, depth = 9
iter = 21740, queue = 30077, heur = -9.0, depth = 9
iter = 21741, queue = 30080, heur = -9.0, depth = 9
iter = 21742, queue = 30081, heur = -9.0, depth = 9
iter = 21743, queue = 30082, heur = -9.0, depth = 9
iter = 21744, queue = 30085, heur = -9.0, depth = 9
iter = 21745, queue = 30085, heur = -9.0, depth = 9
iter = 21746, queue = 30084, heur = -9.0, depth = 10
iter = 21747, queue = 30084, heur = -9.0, depth = 9
iter = 21748, queue = 30084, heur = -9.0, depth = 9
iter = 21749, queue = 30083, heur = -9.0, depth = 9
iter = 21750, queue = 30084, heur = -9.0, depth = 9
iter = 21751, queue = 30084, heur = -9.0, depth = 9
iter = 21752, queue = 30083, heur = -9.0, depth = 9
iter = 21753, queue = 30084, heur = -9.0, depth = 9
iter = 21754, queue = 30084, heur = -9.0, depth = 10
iter = 21755, queue = 30086, heur = -9.0, depth = 9
iter = 21756, queue = 30088, heur = -9.0, depth = 9
iter = 21757, queue = 30091, heur = -9.0, depth = 10
iter = 21758, queue = 30092, heur = -9.0, depth = 9
iter = 21759, queue = 30093, heur = -9.0, depth = 9
iter = 21760, queue = 30094, heur = -9.0, depth = 9
iter = 21761, queue = 30095, heur = -9.0, depth = 9
iter = 21762, queue = 30095, heur = -9.0, depth = 10
iter = 21763, queue = 30095, heur = -9.0, depth = 10
iter = 21764, queue = 30096, heur = -9.0, depth = 10
iter = 21765, queue = 30096, heur = -9.0, depth = 9
iter = 21766, queue = 30097, heur = -9.0, depth = 9
iter = 21767, queue = 30098, heur = -9.0, depth = 10
iter = 21768, queue = 30099, heur = -9.0, depth = 9
iter = 21769, queue = 30100, heur = -9.0, depth = 9
```

```
iter = 21770, queue = 30101, heur = -9.0, depth = 10
iter = 21771, queue = 30101, heur = -9.0, depth = 9
iter = 21772, queue = 30102, heur = -9.0, depth = 9
iter = 21773, queue = 30104, heur = -9.0, depth = 9
iter = 21774, queue = 30107, heur = -9.0, depth = 10
iter = 21775, queue = 30108, heur = -9.0, depth = 9
iter = 21776, queue = 30108, heur = -9.0, depth = 9
iter = 21777, queue = 30109, heur = -9.0, depth = 9
iter = 21778, queue = 30109, heur = -9.0, depth = 10
iter = 21779, queue = 30110, heur = -9.0, depth = 9
iter = 21780, queue = 30111, heur = -9.0, depth = 9
iter = 21781, queue = 30113, heur = -9.0, depth = 9
iter = 21782, queue = 30112, heur = -9.0, depth = 9
iter = 21783, queue = 30113, heur = -9.0, depth = 9
iter = 21784, queue = 30114, heur = -9.0, depth = 9
iter = 21785, queue = 30113, heur = -9.0, depth = 9
iter = 21786, queue = 30112, heur = -9.0, depth = 9
iter = 21787, queue = 30113, heur = -9.0, depth = 9
iter = 21788, queue = 30112, heur = -9.0, depth = 9
iter = 21789, queue = 30113, heur = -9.0, depth = 9
iter = 21790, queue = 30114, heur = -9.0, depth = 10
iter = 21791, queue = 30113, heur = -9.0, depth = 9
iter = 21792, queue = 30115, heur = -9.0, depth = 9
iter = 21793, queue = 30114, heur = -9.0, depth = 9
iter = 21794, queue = 30115, heur = -9.0, depth = 9
iter = 21795, queue = 30115, heur = -9.0, depth = 10
iter = 21796, queue = 30115, heur = -9.0, depth = 9
iter = 21797, queue = 30116, heur = -9.0, depth = 9
iter = 21798, queue = 30117, heur = -9.0, depth = 9
iter = 21799, queue = 30118, heur = -9.0, depth = 9
iter = 21800, queue = 30117, heur = -9.0, depth = 10
iter = 21801, queue = 30116, heur = -9.0, depth = 9
iter = 21802, queue = 30116, heur = -9.0, depth = 9
iter = 21803, queue = 30117, heur = -9.0, depth = 10
iter = 21804, queue = 30119, heur = -9.0, depth = 9
iter = 21805, queue = 30121, heur = -9.0, depth = 10
iter = 21806, queue = 30121, heur = -9.0, depth = 10
iter = 21807, queue = 30121, heur = -9.0, depth = 9
iter = 21808, queue = 30124, heur = -9.0, depth = 9
iter = 21809, queue = 30127, heur = -9.0, depth = 9
iter = 21810, queue = 30126, heur = -9.0, depth = 10
iter = 21811, queue = 30128, heur = -9.0, depth = 10
iter = 21812, queue = 30131, heur = -9.0, depth = 9
iter = 21813, queue = 30132, heur = -9.0, depth = 11
iter = 21814, queue = 30135, heur = -9.0, depth = 9
iter = 21815, queue = 30136, heur = -9.0, depth = 10
iter = 21816, queue = 30135, heur = -9.0, depth = 9
iter = 21817, queue = 30136, heur = -9.0, depth = 9
iter = 21818, queue = 30135, heur = -9.0, depth = 9
iter = 21819, queue = 30138, heur = -9.0, depth = 9
iter = 21820, queue = 30139, heur = -9.0, depth = 10
iter = 21821, queue = 30142, heur = -9.0, depth = 10
iter = 21822, queue = 30143, heur = -9.0, depth = 9
iter = 21823, queue = 30143, heur = -9.0, depth = 11
iter = 21824, queue = 30144, heur = -9.0, depth = 9
iter = 21825, queue = 30147, heur = -9.0, depth = 9
iter = 21826, queue = 30150, heur = -9.0, depth = 9
iter = 21827, queue = 30150, heur = -9.0, depth = 9
iter = 21828, queue = 30149, heur = -9.0, depth = 9
```

```
iter = 21829, queue = 30152, heur = -9.0, depth = 9
iter = 21830, queue = 30155, heur = -9.0, depth = 9
iter = 21831, queue = 30155, heur = -9.0, depth = 9
iter = 21832, queue = 30156, heur = -9.0, depth = 9
iter = 21833, queue = 30158, heur = -9.0, depth = 9
iter = 21834, queue = 30161, heur = -9.0, depth = 10
iter = 21835, queue = 30162, heur = -9.0, depth = 10
iter = 21836, queue = 30165, heur = -9.0, depth = 9
iter = 21837, queue = 30166, heur = -9.0, depth = 9
iter = 21838, queue = 30167, heur = -9.0, depth = 9
iter = 21839, queue = 30168, heur = -9.0, depth = 11
iter = 21840, queue = 30167, heur = -9.0, depth = 9
iter = 21841, queue = 30168, heur = -9.0, depth = 9
iter = 21842, queue = 30169, heur = -9.0, depth = 9
iter = 21843, queue = 30171, heur = -9.0, depth = 9
iter = 21844, queue = 30174, heur = -9.0, depth = 9
iter = 21845, queue = 30174, heur = -9.0, depth = 9
iter = 21846, queue = 30175, heur = -9.0, depth = 9
iter = 21847, queue = 30176, heur = -9.0, depth = 9
iter = 21848, queue = 30177, heur = -9.0, depth = 9
iter = 21849, queue = 30179, heur = -9.0, depth = 9
iter = 21850, queue = 30179, heur = -9.0, depth = 9
iter = 21851, queue = 30181, heur = -9.0, depth = 9
iter = 21852, queue = 30182, heur = -9.0, depth = 9
iter = 21853, queue = 30183, heur = -9.0, depth = 9
iter = 21854, queue = 30184, heur = -9.0, depth = 9
iter = 21855, queue = 30185, heur = -9.0, depth = 9
iter = 21856, queue = 30185, heur = -9.0, depth = 10
iter = 21857, queue = 30187, heur = -9.0, depth = 10
iter = 21858, queue = 30188, heur = -9.0, depth = 9
iter = 21859, queue = 30189, heur = -9.0, depth = 9
iter = 21860, queue = 30190, heur = -9.0, depth = 10
iter = 21861, queue = 30189, heur = -9.0, depth = 9
iter = 21862, queue = 30190, heur = -9.0, depth = 9
iter = 21863, queue = 30190, heur = -9.0, depth = 11
iter = 21864, queue = 30190, heur = -9.0, depth = 11
iter = 21865, queue = 30191, heur = -9.0, depth = 9
iter = 21866, queue = 30193, heur = -9.0, depth = 9
iter = 21867, queue = 30193, heur = -9.0, depth = 9
iter = 21868, queue = 30192, heur = -9.0, depth = 9
iter = 21869, queue = 30195, heur = -9.0, depth = 9
iter = 21870, queue = 30197, heur = -9.0, depth = 9
iter = 21871, queue = 30196, heur = -9.0, depth = 9
iter = 21872, queue = 30197, heur = -9.0, depth = 9
iter = 21873, queue = 30196, heur = -9.0, depth = 9
iter = 21874, queue = 30195, heur = -9.0, depth = 9
iter = 21875, queue = 30195, heur = -9.0, depth = 9
iter = 21876, queue = 30194, heur = -9.0, depth = 9
iter = 21877, queue = 30196, heur = -9.0, depth = 9
iter = 21878, queue = 30197, heur = -9.0, depth = 9
iter = 21879, queue = 30200, heur = -9.0, depth = 9
iter = 21880, queue = 30200, heur = -9.0, depth = 9
iter = 21881, queue = 30202, heur = -9.0, depth = 9
iter = 21882, queue = 30204, heur = -9.0, depth = 9
iter = 21883, queue = 30205, heur = -9.0, depth = 9
iter = 21884, queue = 30206, heur = -9.0, depth = 10
iter = 21885, queue = 30206, heur = -9.0, depth = 9
iter = 21886, queue = 30208, heur = -9.0, depth = 9
iter = 21887, queue = 30207, heur = -9.0, depth = 11
```

```
iter = 21888, queue = 30207, heur = -9.0, depth = 10
iter = 21889, queue = 30209, heur = -9.0, depth = 10
iter = 21890, queue = 30210, heur = -9.0, depth = 9
iter = 21891, queue = 30211, heur = -9.0, depth = 11
iter = 21892, queue = 30212, heur = -9.0, depth = 9
iter = 21893, queue = 30214, heur = -9.0, depth = 9
iter = 21894, queue = 30217, heur = -9.0, depth = 9
iter = 21895, queue = 30219, heur = -9.0, depth = 9
iter = 21896, queue = 30218, heur = -9.0, depth = 10
iter = 21897, queue = 30219, heur = -9.0, depth = 10
iter = 21898, queue = 30219, heur = -9.0, depth = 9
iter = 21899, queue = 30220, heur = -9.0, depth = 10
iter = 21900, queue = 30221, heur = -9.0, depth = 9
iter = 21901, queue = 30220, heur = -9.0, depth = 9
iter = 21902, queue = 30221, heur = -9.0, depth = 9
iter = 21903, queue = 30223, heur = -9.0, depth = 9
iter = 21904, queue = 30223, heur = -9.0, depth = 9
iter = 21905, queue = 30225, heur = -9.0, depth = 10
iter = 21906, queue = 30226, heur = -9.0, depth = 9
iter = 21907, queue = 30225, heur = -9.0, depth = 10
iter = 21908, queue = 30225, heur = -9.0, depth = 9
iter = 21909, queue = 30226, heur = -9.0, depth = 9
iter = 21910, queue = 30225, heur = -9.0, depth = 9
iter = 21911, queue = 30224, heur = -9.0, depth = 9
iter = 21912, queue = 30225, heur = -9.0, depth = 9
iter = 21913, queue = 30226, heur = -9.0, depth = 9
iter = 21914, queue = 30227, heur = -9.0, depth = 9
iter = 21915, queue = 30230, heur = -9.0, depth = 9
iter = 21916, queue = 30231, heur = -9.0, depth = 9
iter = 21917, queue = 30232, heur = -9.0, depth = 9
iter = 21918, queue = 30234, heur = -9.0, depth = 9
iter = 21919, queue = 30235, heur = -9.0, depth = 9
iter = 21920, queue = 30236, heur = -9.0, depth = 9
iter = 21921, queue = 30238, heur = -9.0, depth = 9
iter = 21922, queue = 30239, heur = -9.0, depth = 9
iter = 21923, queue = 30240, heur = -9.0, depth = 9
iter = 21924, queue = 30243, heur = -9.0, depth = 9
iter = 21925, queue = 30245, heur = -9.0, depth = 9
iter = 21926, queue = 30248, heur = -9.0, depth = 9
iter = 21927, queue = 30248, heur = -9.0, depth = 9
iter = 21928, queue = 30249, heur = -9.0, depth = 9
iter = 21929, queue = 30248, heur = -9.0, depth = 9
iter = 21930, queue = 30248, heur = -9.0, depth = 10
iter = 21931, queue = 30247, heur = -9.0, depth = 9
iter = 21932, queue = 30248, heur = -9.0, depth = 9
iter = 21933, queue = 30250, heur = -9.0, depth = 9
iter = 21934, queue = 30250, heur = -9.0, depth = 10
iter = 21935, queue = 30251, heur = -9.0, depth = 9
iter = 21936, queue = 30252, heur = -9.0, depth = 10
iter = 21937, queue = 30251, heur = -9.0, depth = 9
iter = 21938, queue = 30252, heur = -9.0, depth = 9
iter = 21939, queue = 30253, heur = -9.0, depth = 9
iter = 21940, queue = 30254, heur = -9.0, depth = 9
iter = 21941, queue = 30255, heur = -9.0, depth = 9
iter = 21942, queue = 30258, heur = -9.0, depth = 9
iter = 21943, queue = 30258, heur = -9.0, depth = 9
iter = 21944, queue = 30260, heur = -9.0, depth = 9
iter = 21945, queue = 30261, heur = -9.0, depth = 9
iter = 21946, queue = 30263, heur = -9.0, depth = 9
```

```
iter = 21947, queue = 30264, heur = -9.0, depth = 9
iter = 21948, queue = 30265, heur = -9.0, depth = 9
iter = 21949, queue = 30265, heur = -9.0, depth = 10
iter = 21950, queue = 30266, heur = -9.0, depth = 10
iter = 21951, queue = 30266, heur = -9.0, depth = 9
iter = 21952, queue = 30267, heur = -9.0, depth = 9
iter = 21953, queue = 30268, heur = -9.0, depth = 9
iter = 21954, queue = 30269, heur = -9.0, depth = 10
iter = 21955, queue = 30268, heur = -9.0, depth = 10
iter = 21956, queue = 30268, heur = -9.0, depth = 9
iter = 21957, queue = 30267, heur = -9.0, depth = 9
iter = 21958, queue = 30266, heur = -9.0, depth = 9
iter = 21959, queue = 30269, heur = -9.0, depth = 10
iter = 21960, queue = 30270, heur = -9.0, depth = 9
iter = 21961, queue = 30269, heur = -9.0, depth = 9
iter = 21962, queue = 30272, heur = -9.0, depth = 9
iter = 21963, queue = 30273, heur = -9.0, depth = 9
iter = 21964, queue = 30275, heur = -9.0, depth = 9
iter = 21965, queue = 30275, heur = -9.0, depth = 10
iter = 21966, queue = 30276, heur = -9.0, depth = 10
iter = 21967, queue = 30278, heur = -9.0, depth = 10
iter = 21968, queue = 30281, heur = -9.0, depth = 9
iter = 21969, queue = 30282, heur = -9.0, depth = 9
iter = 21970, queue = 30283, heur = -9.0, depth = 9
iter = 21971, queue = 30284, heur = -9.0, depth = 9
iter = 21972, queue = 30285, heur = -9.0, depth = 9
iter = 21973, queue = 30285, heur = -9.0, depth = 9
iter = 21974, queue = 30286, heur = -9.0, depth = 9
iter = 21975, queue = 30287, heur = -9.0, depth = 9
iter = 21976, queue = 30287, heur = -9.0, depth = 9
iter = 21977, queue = 30289, heur = -9.0, depth = 9
iter = 21978, queue = 30289, heur = -9.0, depth = 10
iter = 21979, queue = 30288, heur = -9.0, depth = 10
iter = 21980, queue = 30289, heur = -9.0, depth = 9
iter = 21981, queue = 30290, heur = -9.0, depth = 9
iter = 21982, queue = 30290, heur = -9.0, depth = 9
iter = 21983, queue = 30291, heur = -9.0, depth = 9
iter = 21984, queue = 30292, heur = -9.0, depth = 9
iter = 21985, queue = 30294, heur = -9.0, depth = 9
iter = 21986, queue = 30293, heur = -9.0, depth = 9
iter = 21987, queue = 30294, heur = -9.0, depth = 9
iter = 21988, queue = 30296, heur = -9.0, depth = 9
iter = 21989, queue = 30297, heur = -9.0, depth = 9
iter = 21990, queue = 30299, heur = -9.0, depth = 9
iter = 21991, queue = 30301, heur = -9.0, depth = 9
iter = 21992, queue = 30302, heur = -9.0, depth = 9
iter = 21993, queue = 30302, heur = -9.0, depth = 10
iter = 21994, queue = 30301, heur = -9.0, depth = 9
iter = 21995, queue = 30303, heur = -9.0, depth = 9
iter = 21996, queue = 30304, heur = -9.0, depth = 9
iter = 21997, queue = 30305, heur = -9.0, depth = 9
iter = 21998, queue = 30308, heur = -9.0, depth = 9
iter = 21999, queue = 30308, heur = -9.0, depth = 9
iter = 22000, queue = 30307, heur = -9.0, depth = 9
iter = 22001, queue = 30308, heur = -9.0, depth = 9
iter = 22002, queue = 30309, heur = -9.0, depth = 9
iter = 22003, queue = 30310, heur = -9.0, depth = 9
iter = 22004, queue = 30310, heur = -9.0, depth = 9
iter = 22005, queue = 30310, heur = -9.0, depth = 9
```

```
iter = 22006, queue = 30311, heur = -9.0, depth = 9
iter = 22007, queue = 30311, heur = -9.0, depth = 9
iter = 22008, queue = 30313, heur = -9.0, depth = 9
iter = 22009, queue = 30313, heur = -9.0, depth = 9
iter = 22010, queue = 30314, heur = -9.0, depth = 9
iter = 22011, queue = 30315, heur = -9.0, depth = 9
iter = 22012, queue = 30318, heur = -9.0, depth = 9
iter = 22013, queue = 30319, heur = -9.0, depth = 9
iter = 22014, queue = 30319, heur = -9.0, depth = 9
iter = 22015, queue = 30322, heur = -9.0, depth = 9
iter = 22016, queue = 30321, heur = -9.0, depth = 9
iter = 22017, queue = 30321, heur = -9.0, depth = 9
iter = 22018, queue = 30322, heur = -9.0, depth = 9
iter = 22019, queue = 30322, heur = -9.0, depth = 9
iter = 22020, queue = 30323, heur = -9.0, depth = 9
iter = 22021, queue = 30322, heur = -9.0, depth = 9
iter = 22022, queue = 30323, heur = -9.0, depth = 9
iter = 22023, queue = 30324, heur = -9.0, depth = 9
iter = 22024, queue = 30324, heur = -9.0, depth = 9
iter = 22025, queue = 30325, heur = -9.0, depth = 9
iter = 22026, queue = 30325, heur = -9.0, depth = 9
iter = 22027, queue = 30327, heur = -9.0, depth = 9
iter = 22028, queue = 30330, heur = -9.0, depth = 9
iter = 22029, queue = 30333, heur = -9.0, depth = 9
iter = 22030, queue = 30334, heur = -9.0, depth = 9
iter = 22031, queue = 30337, heur = -9.0, depth = 9
iter = 22032, queue = 30336, heur = -9.0, depth = 9
iter = 22033, queue = 30336, heur = -9.0, depth = 9
iter = 22034, queue = 30335, heur = -9.0, depth = 9
iter = 22035, queue = 30336, heur = -9.0, depth = 11
iter = 22036, queue = 30337, heur = -9.0, depth = 9
iter = 22037, queue = 30340, heur = -9.0, depth = 9
iter = 22038, queue = 30341, heur = -9.0, depth = 9
iter = 22039, queue = 30341, heur = -9.0, depth = 9
iter = 22040, queue = 30341, heur = -9.0, depth = 9
iter = 22041, queue = 30341, heur = -9.0, depth = 9
iter = 22042, queue = 30342, heur = -9.0, depth = 9
iter = 22043, queue = 30343, heur = -9.0, depth = 9
iter = 22044, queue = 30344, heur = -9.0, depth = 11
iter = 22045, queue = 30344, heur = -9.0, depth = 9
iter = 22046, queue = 30345, heur = -9.0, depth = 11
iter = 22047, queue = 30348, heur = -9.0, depth = 11
iter = 22048, queue = 30348, heur = -9.0, depth = 9
iter = 22049, queue = 30349, heur = -9.0, depth = 9
iter = 22050, queue = 30349, heur = -9.0, depth = 11
iter = 22051, queue = 30350, heur = -9.0, depth = 9
iter = 22052, queue = 30351, heur = -9.0, depth = 9
iter = 22053, queue = 30353, heur = -9.0, depth = 9
iter = 22054, queue = 30355, heur = -9.0, depth = 9
iter = 22055, queue = 30357, heur = -9.0, depth = 9
iter = 22056, queue = 30357, heur = -9.0, depth = 9
iter = 22057, queue = 30357, heur = -9.0, depth = 9
iter = 22058, queue = 30358, heur = -9.0, depth = 9
iter = 22059, queue = 30359, heur = -9.0, depth = 9
iter = 22060, queue = 30358, heur = -9.0, depth = 9
iter = 22061, queue = 30359, heur = -9.0, depth = 9
iter = 22062, queue = 30361, heur = -9.0, depth = 9
iter = 22063, queue = 30362, heur = -9.0, depth = 9
iter = 22064, queue = 30363, heur = -9.0, depth = 9
```

```
iter = 22065, queue = 30366, heur = -9.0, depth = 9
iter = 22066, queue = 30367, heur = -9.0, depth = 9
iter = 22067, queue = 30366, heur = -9.0, depth = 9
iter = 22068, queue = 30367, heur = -9.0, depth = 9
iter = 22069, queue = 30366, heur = -9.0, depth = 9
iter = 22070, queue = 30368, heur = -9.0, depth = 9
iter = 22071, queue = 30368, heur = -9.0, depth = 9
iter = 22072, queue = 30368, heur = -9.0, depth = 9
iter = 22073, queue = 30371, heur = -9.0, depth = 9
iter = 22074, queue = 30372, heur = -9.0, depth = 10
iter = 22075, queue = 30373, heur = -9.0, depth = 9
iter = 22076, queue = 30372, heur = -9.0, depth = 9
iter = 22077, queue = 30372, heur = -9.0, depth = 9
iter = 22078, queue = 30374, heur = -9.0, depth = 9
iter = 22079, queue = 30374, heur = -9.0, depth = 9
iter = 22080, queue = 30375, heur = -9.0, depth = 9
iter = 22081, queue = 30374, heur = -9.0, depth = 9
iter = 22082, queue = 30377, heur = -9.0, depth = 9
iter = 22083, queue = 30380, heur = -9.0, depth = 9
iter = 22084, queue = 30383, heur = -9.0, depth = 9
iter = 22085, queue = 30383, heur = -9.0, depth = 9
iter = 22086, queue = 30386, heur = -9.0, depth = 9
iter = 22087, queue = 30387, heur = -9.0, depth = 9
iter = 22088, queue = 30388, heur = -9.0, depth = 9
iter = 22089, queue = 30389, heur = -9.0, depth = 9
iter = 22090, queue = 30392, heur = -9.0, depth = 9
iter = 22091, queue = 30394, heur = -9.0, depth = 9
iter = 22092, queue = 30395, heur = -9.0, depth = 9
iter = 22093, queue = 30394, heur = -9.0, depth = 10
iter = 22094, queue = 30393, heur = -9.0, depth = 9
iter = 22095, queue = 30394, heur = -9.0, depth = 9
iter = 22096, queue = 30397, heur = -9.0, depth = 9
iter = 22097, queue = 30396, heur = -9.0, depth = 9
iter = 22098, queue = 30397, heur = -9.0, depth = 9
iter = 22099, queue = 30396, heur = -9.0, depth = 9
iter = 22100, queue = 30397, heur = -9.0, depth = 9
iter = 22101, queue = 30398, heur = -9.0, depth = 9
iter = 22102, queue = 30399, heur = -9.0, depth = 9
iter = 22103, queue = 30399, heur = -9.0, depth = 9
iter = 22104, queue = 30398, heur = -9.0, depth = 9
iter = 22105, queue = 30399, heur = -9.0, depth = 9
iter = 22106, queue = 30402, heur = -9.0, depth = 9
iter = 22107, queue = 30405, heur = -9.0, depth = 9
iter = 22108, queue = 30406, heur = -9.0, depth = 9
iter = 22109, queue = 30409, heur = -9.0, depth = 9
iter = 22110, queue = 30410, heur = -9.0, depth = 9
iter = 22111, queue = 30409, heur = -9.0, depth = 9
iter = 22112, queue = 30410, heur = -9.0, depth = 9
iter = 22113, queue = 30410, heur = -9.0, depth = 9
iter = 22114, queue = 30411, heur = -9.0, depth = 9
iter = 22115, queue = 30411, heur = -9.0, depth = 9
iter = 22116, queue = 30410, heur = -9.0, depth = 9
iter = 22117, queue = 30410, heur = -9.0, depth = 9
iter = 22118, queue = 30410, heur = -9.0, depth = 9
iter = 22119, queue = 30411, heur = -9.0, depth = 9
iter = 22120, queue = 30412, heur = -9.0, depth = 11
iter = 22121, queue = 30413, heur = -9.0, depth = 9
iter = 22122, queue = 30413, heur = -9.0, depth = 9
iter = 22123, queue = 30413, heur = -9.0, depth = 9
```

```
iter = 22124, queue = 30413, heur = -9.0, depth = 9
iter = 22125, queue = 30415, heur = -9.0, depth = 9
iter = 22126, queue = 30415, heur = -9.0, depth = 9
iter = 22127, queue = 30417, heur = -9.0, depth = 9
iter = 22128, queue = 30419, heur = -9.0, depth = 9
iter = 22129, queue = 30418, heur = -9.0, depth = 9
iter = 22130, queue = 30418, heur = -9.0, depth = 9
iter = 22131, queue = 30421, heur = -9.0, depth = 9
iter = 22132, queue = 30420, heur = -9.0, depth = 9
iter = 22133, queue = 30421, heur = -9.0, depth = 9
iter = 22134, queue = 30420, heur = -9.0, depth = 9
iter = 22135, queue = 30423, heur = -9.0, depth = 9
iter = 22136, queue = 30422, heur = -9.0, depth = 9
iter = 22137, queue = 30423, heur = -9.0, depth = 9
iter = 22138, queue = 30423, heur = -9.0, depth = 9
iter = 22139, queue = 30425, heur = -9.0, depth = 9
iter = 22140, queue = 30426, heur = -9.0, depth = 9
iter = 22141, queue = 30425, heur = -9.0, depth = 9
iter = 22142, queue = 30424, heur = -9.0, depth = 9
iter = 22143, queue = 30424, heur = -9.0, depth = 9
iter = 22144, queue = 30425, heur = -9.0, depth = 9
iter = 22145, queue = 30426, heur = -9.0, depth = 9
iter = 22146, queue = 30425, heur = -9.0, depth = 10
iter = 22147, queue = 30427, heur = -9.0, depth = 9
iter = 22148, queue = 30427, heur = -9.0, depth = 9
iter = 22149, queue = 30426, heur = -9.0, depth = 10
iter = 22150, queue = 30427, heur = -9.0, depth = 10
iter = 22151, queue = 30428, heur = -9.0, depth = 9
iter = 22152, queue = 30427, heur = -9.0, depth = 9
iter = 22153, queue = 30428, heur = -9.0, depth = 9
iter = 22154, queue = 30431, heur = -9.0, depth = 9
iter = 22155, queue = 30430, heur = -9.0, depth = 9
iter = 22156, queue = 30429, heur = -9.0, depth = 9
iter = 22157, queue = 30429, heur = -9.0, depth = 9
iter = 22158, queue = 30432, heur = -9.0, depth = 9
iter = 22159, queue = 30435, heur = -9.0, depth = 9
iter = 22160, queue = 30434, heur = -9.0, depth = 10
iter = 22161, queue = 30435, heur = -9.0, depth = 9
iter = 22162, queue = 30436, heur = -9.0, depth = 10
iter = 22163, queue = 30437, heur = -9.0, depth = 9
iter = 22164, queue = 30436, heur = -9.0, depth = 10
iter = 22165, queue = 30438, heur = -9.0, depth = 10
iter = 22166, queue = 30441, heur = -9.0, depth = 9
iter = 22167, queue = 30440, heur = -9.0, depth = 9
iter = 22168, queue = 30440, heur = -9.0, depth = 9
iter = 22169, queue = 30440, heur = -9.0, depth = 9
iter = 22170, queue = 30440, heur = -9.0, depth = 9
iter = 22171, queue = 30440, heur = -9.0, depth = 9
iter = 22172, queue = 30442, heur = -9.0, depth = 9
iter = 22173, queue = 30441, heur = -9.0, depth = 9
iter = 22174, queue = 30444, heur = -9.0, depth = 9
iter = 22175, queue = 30444, heur = -9.0, depth = 9
iter = 22176, queue = 30444, heur = -9.0, depth = 9
iter = 22177, queue = 30447, heur = -9.0, depth = 9
iter = 22178, queue = 30447, heur = -9.0, depth = 9
iter = 22179, queue = 30447, heur = -9.0, depth = 9
iter = 22180, queue = 30446, heur = -9.0, depth = 9
iter = 22181, queue = 30449, heur = -9.0, depth = 9
iter = 22182, queue = 30449, heur = -9.0, depth = 9
```

```
iter = 22183, queue = 30451, heur = -9.0, depth = 9
iter = 22184, queue = 30454, heur = -9.0, depth = 9
iter = 22185, queue = 30455, heur = -9.0, depth = 9
iter = 22186, queue = 30458, heur = -9.0, depth = 9
iter = 22187, queue = 30460, heur = -9.0, depth = 9
iter = 22188, queue = 30459, heur = -9.0, depth = 9
iter = 22189, queue = 30459, heur = -9.0, depth = 9
iter = 22190, queue = 30458, heur = -9.0, depth = 9
iter = 22191, queue = 30458, heur = -9.0, depth = 9
iter = 22192, queue = 30458, heur = -9.0, depth = 9
iter = 22193, queue = 30461, heur = -9.0, depth = 9
iter = 22194, queue = 30464, heur = -9.0, depth = 9
iter = 22195, queue = 30464, heur = -9.0, depth = 9
iter = 22196, queue = 30467, heur = -9.0, depth = 9
iter = 22197, queue = 30468, heur = -9.0, depth = 9
iter = 22198, queue = 30469, heur = -9.0, depth = 9
iter = 22199, queue = 30470, heur = -9.0, depth = 9
iter = 22200, queue = 30469, heur = -9.0, depth = 9
iter = 22201, queue = 30470, heur = -9.0, depth = 9
iter = 22202, queue = 30471, heur = -9.0, depth = 9
iter = 22203, queue = 30471, heur = -9.0, depth = 9
iter = 22204, queue = 30472, heur = -9.0, depth = 9
iter = 22205, queue = 30473, heur = -9.0, depth = 9
iter = 22206, queue = 30473, heur = -9.0, depth = 9
iter = 22207, queue = 30476, heur = -9.0, depth = 9
iter = 22208, queue = 30477, heur = -9.0, depth = 9
iter = 22209, queue = 30480, heur = -9.0, depth = 9
iter = 22210, queue = 30481, heur = -9.0, depth = 9
iter = 22211, queue = 30482, heur = -9.0, depth = 9
iter = 22212, queue = 30481, heur = -9.0, depth = 9
iter = 22213, queue = 30480, heur = -9.0, depth = 9
iter = 22214, queue = 30481, heur = -9.0, depth = 9
iter = 22215, queue = 30480, heur = -9.0, depth = 9
iter = 22216, queue = 30482, heur = -9.0, depth = 9
iter = 22217, queue = 30484, heur = -9.0, depth = 9
iter = 22218, queue = 30485, heur = -9.0, depth = 9
iter = 22219, queue = 30487, heur = -9.0, depth = 9
iter = 22220, queue = 30490, heur = -9.0, depth = 9
iter = 22221, queue = 30493, heur = -9.0, depth = 9
iter = 22222, queue = 30496, heur = -9.0, depth = 9
iter = 22223, queue = 30497, heur = -9.0, depth = 9
iter = 22224, queue = 30500, heur = -9.0, depth = 9
iter = 22225, queue = 30503, heur = -9.0, depth = 9
iter = 22226, queue = 30504, heur = -9.0, depth = 9
iter = 22227, queue = 30507, heur = -9.0, depth = 9
iter = 22228, queue = 30508, heur = -9.0, depth = 9
iter = 22229, queue = 30508, heur = -9.0, depth = 9
iter = 22230, queue = 30510, heur = -9.0, depth = 9
iter = 22231, queue = 30511, heur = -9.0, depth = 9
iter = 22232, queue = 30514, heur = -9.0, depth = 9
iter = 22233, queue = 30517, heur = -9.0, depth = 9
iter = 22234, queue = 30520, heur = -9.0, depth = 9
iter = 22235, queue = 30520, heur = -9.0, depth = 9
iter = 22236, queue = 30521, heur = -9.0, depth = 10
iter = 22237, queue = 30524, heur = -9.0, depth = 9
iter = 22238, queue = 30525, heur = -9.0, depth = 9
iter = 22239, queue = 30524, heur = -9.0, depth = 9
iter = 22240, queue = 30523, heur = -9.0, depth = 9
iter = 22241, queue = 30522, heur = -9.0, depth = 9
```

```
iter = 22242, queue = 30523, heur = -9.0, depth = 9
iter = 22243, queue = 30522, heur = -9.0, depth = 11
iter = 22244, queue = 30523, heur = -9.0, depth = 9
iter = 22245, queue = 30524, heur = -9.0, depth = 9
iter = 22246, queue = 30524, heur = -9.0, depth = 9
iter = 22247, queue = 30526, heur = -9.0, depth = 10
iter = 22248, queue = 30529, heur = -9.0, depth = 9
iter = 22249, queue = 30529, heur = -9.0, depth = 10
iter = 22250, queue = 30532, heur = -9.0, depth = 9
iter = 22251, queue = 30531, heur = -9.0, depth = 9
iter = 22252, queue = 30530, heur = -9.0, depth = 9
iter = 22253, queue = 30533, heur = -9.0, depth = 9
iter = 22254, queue = 30534, heur = -9.0, depth = 9
iter = 22255, queue = 30535, heur = -9.0, depth = 9
iter = 22256, queue = 30536, heur = -9.0, depth = 9
iter = 22257, queue = 30538, heur = -9.0, depth = 9
iter = 22258, queue = 30541, heur = -9.0, depth = 9
iter = 22259, queue = 30542, heur = -9.0, depth = 9
iter = 22260, queue = 30541, heur = -9.0, depth = 9
iter = 22261, queue = 30540, heur = -9.0, depth = 9
iter = 22262, queue = 30539, heur = -9.0, depth = 9
iter = 22263, queue = 30540, heur = -9.0, depth = 9
iter = 22264, queue = 30541, heur = -9.0, depth = 9
iter = 22265, queue = 30542, heur = -9.0, depth = 9
iter = 22266, queue = 30545, heur = -9.0, depth = 9
iter = 22267, queue = 30546, heur = -9.0, depth = 9
iter = 22268, queue = 30548, heur = -9.0, depth = 9
iter = 22269, queue = 30549, heur = -9.0, depth = 9
iter = 22270, queue = 30548, heur = -9.0, depth = 9
iter = 22271, queue = 30549, heur = -9.0, depth = 9
iter = 22272, queue = 30550, heur = -9.0, depth = 9
iter = 22273, queue = 30549, heur = -9.0, depth = 9
iter = 22274, queue = 30550, heur = -9.0, depth = 9
iter = 22275, queue = 30553, heur = -9.0, depth = 9
iter = 22276, queue = 30555, heur = -9.0, depth = 9
iter = 22277, queue = 30557, heur = -9.0, depth = 9
iter = 22278, queue = 30556, heur = -9.0, depth = 9
iter = 22279, queue = 30559, heur = -9.0, depth = 9
iter = 22280, queue = 30559, heur = -9.0, depth = 9
iter = 22281, queue = 30562, heur = -9.0, depth = 9
iter = 22282, queue = 30562, heur = -9.0, depth = 9
iter = 22283, queue = 30564, heur = -9.0, depth = 9
iter = 22284, queue = 30564, heur = -9.0, depth = 9
iter = 22285, queue = 30565, heur = -9.0, depth = 9
iter = 22286, queue = 30566, heur = -9.0, depth = 9
iter = 22287, queue = 30566, heur = -9.0, depth = 9
iter = 22288, queue = 30565, heur = -9.0, depth = 9
iter = 22289, queue = 30566, heur = -9.0, depth = 10
iter = 22290, queue = 30565, heur = -9.0, depth = 9
iter = 22291, queue = 30566, heur = -9.0, depth = 9
iter = 22292, queue = 30565, heur = -9.0, depth = 9
iter = 22293, queue = 30564, heur = -9.0, depth = 9
iter = 22294, queue = 30563, heur = -9.0, depth = 10
iter = 22295, queue = 30564, heur = -9.0, depth = 10
iter = 22296, queue = 30565, heur = -9.0, depth = 9
iter = 22297, queue = 30566, heur = -9.0, depth = 9
iter = 22298, queue = 30566, heur = -9.0, depth = 9
iter = 22299, queue = 30569, heur = -9.0, depth = 9
iter = 22300, queue = 30568, heur = -9.0, depth = 9
```

```
iter = 22301, queue = 30569, heur = -9.0, depth = 9
iter = 22302, queue = 30569, heur = -9.0, depth = 9
iter = 22303, queue = 30570, heur = -9.0, depth = 9
iter = 22304, queue = 30570, heur = -9.0, depth = 9
iter = 22305, queue = 30569, heur = -9.0, depth = 9
iter = 22306, queue = 30570, heur = -9.0, depth = 9
iter = 22307, queue = 30571, heur = -9.0, depth = 9
iter = 22308, queue = 30572, heur = -9.0, depth = 10
iter = 22309, queue = 30574, heur = -9.0, depth = 9
iter = 22310, queue = 30574, heur = -9.0, depth = 11
iter = 22311, queue = 30577, heur = -9.0, depth = 10
iter = 22312, queue = 30580, heur = -9.0, depth = 12
iter = 22313, queue = 30581, heur = -9.0, depth = 9
iter = 22314, queue = 30582, heur = -9.0, depth = 10
iter = 22315, queue = 30582, heur = -9.0, depth = 10
iter = 22316, queue = 30583, heur = -9.0, depth = 9
iter = 22317, queue = 30585, heur = -9.0, depth = 9
iter = 22318, queue = 30584, heur = -9.0, depth = 9
iter = 22319, queue = 30585, heur = -9.0, depth = 9
iter = 22320, queue = 30585, heur = -9.0, depth = 9
iter = 22321, queue = 30585, heur = -9.0, depth = 9
iter = 22322, queue = 30586, heur = -9.0, depth = 9
iter = 22323, queue = 30585, heur = -9.0, depth = 9
iter = 22324, queue = 30586, heur = -9.0, depth = 9
iter = 22325, queue = 30585, heur = -9.0, depth = 9
iter = 22326, queue = 30586, heur = -9.0, depth = 9
iter = 22327, queue = 30585, heur = -9.0, depth = 9
iter = 22328, queue = 30588, heur = -9.0, depth = 9
iter = 22329, queue = 30589, heur = -9.0, depth = 9
iter = 22330, queue = 30588, heur = -9.0, depth = 10
iter = 22331, queue = 30588, heur = -9.0, depth = 9
iter = 22332, queue = 30590, heur = -9.0, depth = 9
iter = 22333, queue = 30589, heur = -9.0, depth = 9
iter = 22334, queue = 30591, heur = -9.0, depth = 9
iter = 22335, queue = 30590, heur = -9.0, depth = 9
iter = 22336, queue = 30590, heur = -9.0, depth = 9
iter = 22337, queue = 30593, heur = -9.0, depth = 10
iter = 22338, queue = 30594, heur = -9.0, depth = 9
iter = 22339, queue = 30594, heur = -9.0, depth = 10
iter = 22340, queue = 30595, heur = -9.0, depth = 10
iter = 22341, queue = 30594, heur = -9.0, depth = 9
iter = 22342, queue = 30597, heur = -9.0, depth = 11
iter = 22343, queue = 30598, heur = -9.0, depth = 9
iter = 22344, queue = 30599, heur = -9.0, depth = 9
iter = 22345, queue = 30601, heur = -9.0, depth = 9
iter = 22346, queue = 30602, heur = -9.0, depth = 9
iter = 22347, queue = 30603, heur = -9.0, depth = 9
iter = 22348, queue = 30604, heur = -9.0, depth = 9
iter = 22349, queue = 30604, heur = -9.0, depth = 10
iter = 22350, queue = 30607, heur = -9.0, depth = 9
iter = 22351, queue = 30606, heur = -9.0, depth = 9
iter = 22352, queue = 30609, heur = -9.0, depth = 9
iter = 22353, queue = 30610, heur = -9.0, depth = 9
iter = 22354, queue = 30613, heur = -9.0, depth = 10
iter = 22355, queue = 30614, heur = -9.0, depth = 9
iter = 22356, queue = 30615, heur = -9.0, depth = 9
iter = 22357, queue = 30616, heur = -9.0, depth = 9
iter = 22358, queue = 30617, heur = -9.0, depth = 9
iter = 22359, queue = 30618, heur = -9.0, depth = 9
```

```
iter = 22360, queue = 30620, heur = -9.0, depth = 9
iter = 22361, queue = 30621, heur = -9.0, depth = 9
iter = 22362, queue = 30622, heur = -9.0, depth = 9
iter = 22363, queue = 30623, heur = -9.0, depth = 9
iter = 22364, queue = 30622, heur = -9.0, depth = 9
iter = 22365, queue = 30625, heur = -9.0, depth = 9
iter = 22366, queue = 30627, heur = -9.0, depth = 9
iter = 22367, queue = 30628, heur = -9.0, depth = 9
iter = 22368, queue = 30629, heur = -9.0, depth = 9
iter = 22369, queue = 30632, heur = -9.0, depth = 9
iter = 22370, queue = 30633, heur = -9.0, depth = 9
iter = 22371, queue = 30636, heur = -9.0, depth = 9
iter = 22372, queue = 30636, heur = -9.0, depth = 9
iter = 22373, queue = 30637, heur = -9.0, depth = 9
iter = 22374, queue = 30640, heur = -9.0, depth = 9
iter = 22375, queue = 30643, heur = -9.0, depth = 9
iter = 22376, queue = 30646, heur = -9.0, depth = 9
iter = 22377, queue = 30647, heur = -9.0, depth = 9
iter = 22378, queue = 30648, heur = -9.0, depth = 9
iter = 22379, queue = 30649, heur = -9.0, depth = 9
iter = 22380, queue = 30648, heur = -9.0, depth = 9
iter = 22381, queue = 30647, heur = -9.0, depth = 9
iter = 22382, queue = 30648, heur = -9.0, depth = 9
iter = 22383, queue = 30647, heur = -9.0, depth = 10
iter = 22384, queue = 30648, heur = -9.0, depth = 9
iter = 22385, queue = 30649, heur = -9.0, depth = 9
iter = 22386, queue = 30651, heur = -9.0, depth = 10
iter = 22387, queue = 30654, heur = -9.0, depth = 10
iter = 22388, queue = 30655, heur = -9.0, depth = 9
iter = 22389, queue = 30655, heur = -9.0, depth = 9
iter = 22390, queue = 30657, heur = -9.0, depth = 9
iter = 22391, queue = 30658, heur = -9.0, depth = 9
iter = 22392, queue = 30660, heur = -9.0, depth = 9
iter = 22393, queue = 30660, heur = -9.0, depth = 10
iter = 22394, queue = 30661, heur = -9.0, depth = 10
iter = 22395, queue = 30662, heur = -9.0, depth = 9
iter = 22396, queue = 30663, heur = -9.0, depth = 10
iter = 22397, queue = 30664, heur = -9.0, depth = 10
iter = 22398, queue = 30666, heur = -9.0, depth = 9
iter = 22399, queue = 30665, heur = -9.0, depth = 9
iter = 22400, queue = 30667, heur = -9.0, depth = 10
iter = 22401, queue = 30667, heur = -9.0, depth = 9
iter = 22402, queue = 30666, heur = -9.0, depth = 9
iter = 22403, queue = 30667, heur = -9.0, depth = 11
iter = 22404, queue = 30670, heur = -9.0, depth = 11
iter = 22405, queue = 30671, heur = -9.0, depth = 9
iter = 22406, queue = 30672, heur = -9.0, depth = 9
iter = 22407, queue = 30675, heur = -9.0, depth = 9
iter = 22408, queue = 30678, heur = -9.0, depth = 11
iter = 22409, queue = 30679, heur = -9.0, depth = 11
iter = 22410, queue = 30680, heur = -9.0, depth = 9
iter = 22411, queue = 30681, heur = -9.0, depth = 11
iter = 22412, queue = 30683, heur = -9.0, depth = 11
iter = 22413, queue = 30683, heur = -9.0, depth = 9
iter = 22414, queue = 30684, heur = -9.0, depth = 9
iter = 22415, queue = 30685, heur = -9.0, depth = 10
iter = 22416, queue = 30686, heur = -9.0, depth = 9
iter = 22417, queue = 30688, heur = -9.0, depth = 9
iter = 22418, queue = 30689, heur = -9.0, depth = 10
```

```
iter = 22419, queue = 30690, heur = -9.0, depth = 10
iter = 22420, queue = 30689, heur = -9.0, depth = 9
iter = 22421, queue = 30690, heur = -9.0, depth = 9
iter = 22422, queue = 30692, heur = -9.0, depth = 9
iter = 22423, queue = 30693, heur = -9.0, depth = 9
iter = 22424, queue = 30694, heur = -9.0, depth = 10
iter = 22425, queue = 30695, heur = -9.0, depth = 9
iter = 22426, queue = 30694, heur = -9.0, depth = 9
iter = 22427, queue = 30695, heur = -9.0, depth = 9
iter = 22428, queue = 30696, heur = -9.0, depth = 11
iter = 22429, queue = 30697, heur = -9.0, depth = 9
iter = 22430, queue = 30696, heur = -9.0, depth = 11
iter = 22431, queue = 30698, heur = -9.0, depth = 11
iter = 22432, queue = 30701, heur = -9.0, depth = 9
iter = 22433, queue = 30703, heur = -9.0, depth = 10
iter = 22434, queue = 30703, heur = -9.0, depth = 9
iter = 22435, queue = 30704, heur = -9.0, depth = 10
iter = 22436, queue = 30704, heur = -9.0, depth = 10
iter = 22437, queue = 30705, heur = -9.0, depth = 9
iter = 22438, queue = 30704, heur = -9.0, depth = 10
iter = 22439, queue = 30705, heur = -9.0, depth = 10
iter = 22440, queue = 30705, heur = -9.0, depth = 10
iter = 22441, queue = 30706, heur = -9.0, depth = 10
iter = 22442, queue = 30707, heur = -9.0, depth = 9
iter = 22443, queue = 30707, heur = -9.0, depth = 9
iter = 22444, queue = 30708, heur = -9.0, depth = 9
iter = 22445, queue = 30710, heur = -9.0, depth = 9
iter = 22446, queue = 30711, heur = -9.0, depth = 9
iter = 22447, queue = 30713, heur = -9.0, depth = 9
iter = 22448, queue = 30714, heur = -9.0, depth = 9
iter = 22449, queue = 30713, heur = -9.0, depth = 9
iter = 22450, queue = 30714, heur = -9.0, depth = 9
iter = 22451, queue = 30714, heur = -9.0, depth = 9
iter = 22452, queue = 30714, heur = -9.0, depth = 9
iter = 22453, queue = 30713, heur = -9.0, depth = 9
iter = 22454, queue = 30716, heur = -9.0, depth = 9
iter = 22455, queue = 30716, heur = -9.0, depth = 9
iter = 22456, queue = 30717, heur = -9.0, depth = 9
iter = 22457, queue = 30720, heur = -9.0, depth = 9
iter = 22458, queue = 30721, heur = -9.0, depth = 9
iter = 22459, queue = 30722, heur = -9.0, depth = 9
iter = 22460, queue = 30722, heur = -9.0, depth = 9
iter = 22461, queue = 30723, heur = -9.0, depth = 9
iter = 22462, queue = 30723, heur = -9.0, depth = 9
iter = 22463, queue = 30723, heur = -9.0, depth = 9
iter = 22464, queue = 30722, heur = -9.0, depth = 9
iter = 22465, queue = 30723, heur = -9.0, depth = 9
iter = 22466, queue = 30724, heur = -9.0, depth = 9
iter = 22467, queue = 30723, heur = -9.0, depth = 9
iter = 22468, queue = 30724, heur = -9.0, depth = 9
iter = 22469, queue = 30723, heur = -9.0, depth = 10
iter = 22470, queue = 30723, heur = -9.0, depth = 9
iter = 22471, queue = 30722, heur = -9.0, depth = 9
iter = 22472, queue = 30723, heur = -9.0, depth = 9
iter = 22473, queue = 30724, heur = -9.0, depth = 9
iter = 22474, queue = 30725, heur = -9.0, depth = 11
iter = 22475, queue = 30725, heur = -9.0, depth = 9
iter = 22476, queue = 30726, heur = -9.0, depth = 11
iter = 22477, queue = 30727, heur = -9.0, depth = 9
```

```
iter = 22478, queue = 30726, heur = -9.0, depth = 9
iter = 22479, queue = 30726, heur = -9.0, depth = 11
iter = 22480, queue = 30727, heur = -9.0, depth = 9
iter = 22481, queue = 30729, heur = -9.0, depth = 9
iter = 22482, queue = 30730, heur = -9.0, depth = 9
iter = 22483, queue = 30730, heur = -9.0, depth = 9
iter = 22484, queue = 30730, heur = -9.0, depth = 11
iter = 22485, queue = 30730, heur = -9.0, depth = 9
iter = 22486, queue = 30732, heur = -9.0, depth = 9
iter = 22487, queue = 30733, heur = -9.0, depth = 9
iter = 22488, queue = 30736, heur = -9.0, depth = 9
iter = 22489, queue = 30738, heur = -9.0, depth = 9
iter = 22490, queue = 30739, heur = -9.0, depth = 9
iter = 22491, queue = 30739, heur = -9.0, depth = 9
iter = 22492, queue = 30740, heur = -9.0, depth = 9
iter = 22493, queue = 30741, heur = -9.0, depth = 11
iter = 22494, queue = 30742, heur = -9.0, depth = 11
iter = 22495, queue = 30745, heur = -9.0, depth = 11
iter = 22496, queue = 30745, heur = -9.0, depth = 9
iter = 22497, queue = 30746, heur = -9.0, depth = 9
iter = 22498, queue = 30746, heur = -9.0, depth = 9
iter = 22499, queue = 30749, heur = -9.0, depth = 11
iter = 22500, queue = 30750, heur = -9.0, depth = 9
iter = 22501, queue = 30752, heur = -9.0, depth = 9
iter = 22502, queue = 30755, heur = -9.0, depth = 9
iter = 22503, queue = 30756, heur = -9.0, depth = 9
iter = 22504, queue = 30757, heur = -9.0, depth = 9
iter = 22505, queue = 30758, heur = -9.0, depth = 9
iter = 22506, queue = 30759, heur = -9.0, depth = 9
iter = 22507, queue = 30760, heur = -9.0, depth = 9
iter = 22508, queue = 30763, heur = -9.0, depth = 9
iter = 22509, queue = 30764, heur = -9.0, depth = 9
iter = 22510, queue = 30765, heur = -9.0, depth = 10
iter = 22511, queue = 30764, heur = -9.0, depth = 10
iter = 22512, queue = 30764, heur = -9.0, depth = 9
iter = 22513, queue = 30765, heur = -9.0, depth = 10
iter = 22514, queue = 30766, heur = -9.0, depth = 9
iter = 22515, queue = 30765, heur = -9.0, depth = 9
iter = 22516, queue = 30768, heur = -9.0, depth = 9
iter = 22517, queue = 30769, heur = -9.0, depth = 9
iter = 22518, queue = 30772, heur = -9.0, depth = 9
iter = 22519, queue = 30773, heur = -9.0, depth = 9
iter = 22520, queue = 30772, heur = -9.0, depth = 9
iter = 22521, queue = 30771, heur = -9.0, depth = 9
iter = 22522, queue = 30772, heur = -9.0, depth = 9
iter = 22523, queue = 30772, heur = -9.0, depth = 9
iter = 22524, queue = 30771, heur = -9.0, depth = 9
iter = 22525, queue = 30774, heur = -9.0, depth = 9
iter = 22526, queue = 30775, heur = -9.0, depth = 9
iter = 22527, queue = 30776, heur = -9.0, depth = 9
iter = 22528, queue = 30777, heur = -9.0, depth = 9
iter = 22529, queue = 30777, heur = -9.0, depth = 9
iter = 22530, queue = 30776, heur = -9.0, depth = 9
iter = 22531, queue = 30777, heur = -9.0, depth = 9
iter = 22532, queue = 30778, heur = -9.0, depth = 9
iter = 22533, queue = 30780, heur = -9.0, depth = 9
iter = 22534, queue = 30781, heur = -9.0, depth = 9
iter = 22535, queue = 30780, heur = -9.0, depth = 9
iter = 22536, queue = 30779, heur = -9.0, depth = 9
```

```
iter = 22537, queue = 30779, heur = -9.0, depth = 9
iter = 22538, queue = 30780, heur = -9.0, depth = 9
iter = 22539, queue = 30781, heur = -9.0, depth = 10
iter = 22540, queue = 30781, heur = -9.0, depth = 9
iter = 22541, queue = 30780, heur = -9.0, depth = 9
iter = 22542, queue = 30781, heur = -9.0, depth = 9
iter = 22543, queue = 30783, heur = -9.0, depth = 9
iter = 22544, queue = 30784, heur = -9.0, depth = 9
iter = 22545, queue = 30786, heur = -9.0, depth = 9
iter = 22546, queue = 30785, heur = -9.0, depth = 9
iter = 22547, queue = 30786, heur = -9.0, depth = 9
iter = 22548, queue = 30785, heur = -9.0, depth = 9
iter = 22549, queue = 30786, heur = -9.0, depth = 9
iter = 22550, queue = 30786, heur = -9.0, depth = 9
iter = 22551, queue = 30787, heur = -9.0, depth = 9
iter = 22552, queue = 30787, heur = -9.0, depth = 9
iter = 22553, queue = 30788, heur = -9.0, depth = 9
iter = 22554, queue = 30790, heur = -9.0, depth = 9
iter = 22555, queue = 30790, heur = -9.0, depth = 10
iter = 22556, queue = 30792, heur = -9.0, depth = 9
iter = 22557, queue = 30795, heur = -9.0, depth = 9
iter = 22558, queue = 30797, heur = -9.0, depth = 9
iter = 22559, queue = 30800, heur = -9.0, depth = 9
iter = 22560, queue = 30802, heur = -9.0, depth = 9
iter = 22561, queue = 30803, heur = -9.0, depth = 9
iter = 22562, queue = 30804, heur = -9.0, depth = 9
iter = 22563, queue = 30807, heur = -9.0, depth = 9
iter = 22564, queue = 30808, heur = -9.0, depth = 9
iter = 22565, queue = 30809, heur = -9.0, depth = 9
iter = 22566, queue = 30810, heur = -9.0, depth = 9
iter = 22567, queue = 30811, heur = -9.0, depth = 9
iter = 22568, queue = 30814, heur = -9.0, depth = 9
iter = 22569, queue = 30816, heur = -9.0, depth = 9
iter = 22570, queue = 30819, heur = -9.0, depth = 9
iter = 22571, queue = 30820, heur = -9.0, depth = 9
iter = 22572, queue = 30821, heur = -9.0, depth = 9
iter = 22573, queue = 30824, heur = -9.0, depth = 9
iter = 22574, queue = 30826, heur = -9.0, depth = 9
iter = 22575, queue = 30826, heur = -9.0, depth = 9
iter = 22576, queue = 30829, heur = -9.0, depth = 9
iter = 22577, queue = 30830, heur = -9.0, depth = 9
iter = 22578, queue = 30831, heur = -9.0, depth = 9
iter = 22579, queue = 30832, heur = -9.0, depth = 9
iter = 22580, queue = 30832, heur = -9.0, depth = 9
iter = 22581, queue = 30834, heur = -9.0, depth = 9
iter = 22582, queue = 30835, heur = -9.0, depth = 9
iter = 22583, queue = 30837, heur = -9.0, depth = 9
iter = 22584, queue = 30836, heur = -9.0, depth = 9
iter = 22585, queue = 30837, heur = -9.0, depth = 9
iter = 22586, queue = 30839, heur = -9.0, depth = 9
iter = 22587, queue = 30840, heur = -9.0, depth = 9
iter = 22588, queue = 30841, heur = -9.0, depth = 9
iter = 22589, queue = 30841, heur = -9.0, depth = 9
iter = 22590, queue = 30842, heur = -9.0, depth = 9
iter = 22591, queue = 30845, heur = -9.0, depth = 9
iter = 22592, queue = 30846, heur = -9.0, depth = 9
iter = 22593, queue = 30846, heur = -9.0, depth = 9
iter = 22594, queue = 30846, heur = -9.0, depth = 9
iter = 22595, queue = 30847, heur = -9.0, depth = 9
```

```
iter = 22596, queue = 30850, heur = -9.0, depth = 9
iter = 22597, queue = 30850, heur = -9.0, depth = 9
iter = 22598, queue = 30853, heur = -9.0, depth = 9
iter = 22599, queue = 30854, heur = -9.0, depth = 9
iter = 22600, queue = 30856, heur = -9.0, depth = 9
iter = 22601, queue = 30859, heur = -9.0, depth = 9
iter = 22602, queue = 30862, heur = -9.0, depth = 9
iter = 22603, queue = 30863, heur = -9.0, depth = 9
iter = 22604, queue = 30863, heur = -9.0, depth = 9
iter = 22605, queue = 30864, heur = -9.0, depth = 9
iter = 22606, queue = 30863, heur = -9.0, depth = 9
iter = 22607, queue = 30865, heur = -9.0, depth = 9
iter = 22608, queue = 30865, heur = -9.0, depth = 9
iter = 22609, queue = 30864, heur = -9.0, depth = 9
iter = 22610, queue = 30863, heur = -9.0, depth = 9
iter = 22611, queue = 30862, heur = -9.0, depth = 9
iter = 22612, queue = 30864, heur = -9.0, depth = 9
iter = 22613, queue = 30865, heur = -9.0, depth = 9
iter = 22614, queue = 30867, heur = -9.0, depth = 9
iter = 22615, queue = 30868, heur = -9.0, depth = 9
iter = 22616, queue = 30871, heur = -9.0, depth = 9
iter = 22617, queue = 30870, heur = -9.0, depth = 9
iter = 22618, queue = 30873, heur = -9.0, depth = 9
iter = 22619, queue = 30874, heur = -9.0, depth = 9
iter = 22620, queue = 30874, heur = -9.0, depth = 9
iter = 22621, queue = 30875, heur = -9.0, depth = 9
iter = 22622, queue = 30875, heur = -9.0, depth = 9
iter = 22623, queue = 30876, heur = -9.0, depth = 10
iter = 22624, queue = 30876, heur = -9.0, depth = 9
iter = 22625, queue = 30877, heur = -9.0, depth = 9
iter = 22626, queue = 30878, heur = -9.0, depth = 9
iter = 22627, queue = 30879, heur = -9.0, depth = 9
iter = 22628, queue = 30878, heur = -9.0, depth = 9
iter = 22629, queue = 30877, heur = -9.0, depth = 9
iter = 22630, queue = 30877, heur = -9.0, depth = 9
iter = 22631, queue = 30879, heur = -9.0, depth = 9
iter = 22632, queue = 30880, heur = -9.0, depth = 9
iter = 22633, queue = 30881, heur = -9.0, depth = 9
iter = 22634, queue = 30882, heur = -9.0, depth = 9
iter = 22635, queue = 30881, heur = -9.0, depth = 9
iter = 22636, queue = 30882, heur = -9.0, depth = 9
iter = 22637, queue = 30885, heur = -9.0, depth = 9
iter = 22638, queue = 30886, heur = -9.0, depth = 9
iter = 22639, queue = 30889, heur = -9.0, depth = 9
iter = 22640, queue = 30890, heur = -9.0, depth = 9
iter = 22641, queue = 30890, heur = -9.0, depth = 9
iter = 22642, queue = 30890, heur = -9.0, depth = 9
iter = 22643, queue = 30891, heur = -9.0, depth = 9
iter = 22644, queue = 30893, heur = -9.0, depth = 9
iter = 22645, queue = 30894, heur = -9.0, depth = 9
iter = 22646, queue = 30895, heur = -9.0, depth = 10
iter = 22647, queue = 30898, heur = -9.0, depth = 9
iter = 22648, queue = 30899, heur = -9.0, depth = 9
iter = 22649, queue = 30898, heur = -9.0, depth = 9
iter = 22650, queue = 30899, heur = -9.0, depth = 9
iter = 22651, queue = 30899, heur = -9.0, depth = 9
iter = 22652, queue = 30900, heur = -9.0, depth = 9
iter = 22653, queue = 30900, heur = -9.0, depth = 9
iter = 22654, queue = 30901, heur = -9.0, depth = 9
```

```
iter = 22655, queue = 30902, heur = -9.0, depth = 9
iter = 22656, queue = 30903, heur = -9.0, depth = 9
iter = 22657, queue = 30904, heur = -9.0, depth = 9
iter = 22658, queue = 30907, heur = -9.0, depth = 9
iter = 22659, queue = 30907, heur = -9.0, depth = 9
iter = 22660, queue = 30910, heur = -9.0, depth = 9
iter = 22661, queue = 30909, heur = -9.0, depth = 9
iter = 22662, queue = 30909, heur = -9.0, depth = 9
iter = 22663, queue = 30910, heur = -9.0, depth = 9
iter = 22664, queue = 30911, heur = -9.0, depth = 9
iter = 22665, queue = 30913, heur = -9.0, depth = 9
iter = 22666, queue = 30915, heur = -9.0, depth = 9
iter = 22667, queue = 30915, heur = -9.0, depth = 9
iter = 22668, queue = 30916, heur = -9.0, depth = 9
iter = 22669, queue = 30917, heur = -9.0, depth = 9
iter = 22670, queue = 30918, heur = -9.0, depth = 9
iter = 22671, queue = 30918, heur = -9.0, depth = 9
iter = 22672, queue = 30921, heur = -9.0, depth = 9
iter = 22673, queue = 30922, heur = -9.0, depth = 9
iter = 22674, queue = 30921, heur = -9.0, depth = 9
iter = 22675, queue = 30923, heur = -9.0, depth = 9
iter = 22676, queue = 30923, heur = -9.0, depth = 9
iter = 22677, queue = 30924, heur = -9.0, depth = 9
iter = 22678, queue = 30924, heur = -9.0, depth = 9
iter = 22679, queue = 30925, heur = -9.0, depth = 9
iter = 22680, queue = 30926, heur = -9.0, depth = 9
iter = 22681, queue = 30925, heur = -9.0, depth = 9
iter = 22682, queue = 30926, heur = -9.0, depth = 9
iter = 22683, queue = 30925, heur = -9.0, depth = 9
iter = 22684, queue = 30925, heur = -9.0, depth = 9
iter = 22685, queue = 30928, heur = -9.0, depth = 9
iter = 22686, queue = 30927, heur = -9.0, depth = 9
iter = 22687, queue = 30927, heur = -9.0, depth = 9
iter = 22688, queue = 30929, heur = -9.0, depth = 9
iter = 22689, queue = 30930, heur = -9.0, depth = 9
iter = 22690, queue = 30931, heur = -9.0, depth = 9
iter = 22691, queue = 30932, heur = -9.0, depth = 9
iter = 22692, queue = 30933, heur = -9.0, depth = 9
iter = 22693, queue = 30933, heur = -9.0, depth = 9
iter = 22694, queue = 30936, heur = -9.0, depth = 9
iter = 22695, queue = 30936, heur = -9.0, depth = 9
iter = 22696, queue = 30936, heur = -9.0, depth = 9
iter = 22697, queue = 30937, heur = -9.0, depth = 9
iter = 22698, queue = 30938, heur = -9.0, depth = 9
iter = 22699, queue = 30937, heur = -9.0, depth = 9
iter = 22700, queue = 30938, heur = -9.0, depth = 9
iter = 22701, queue = 30941, heur = -9.0, depth = 9
iter = 22702, queue = 30940, heur = -9.0, depth = 9
iter = 22703, queue = 30943, heur = -9.0, depth = 9
iter = 22704, queue = 30944, heur = -9.0, depth = 9
iter = 22705, queue = 30945, heur = -9.0, depth = 9
iter = 22706, queue = 30945, heur = -9.0, depth = 10
iter = 22707, queue = 30947, heur = -9.0, depth = 9
iter = 22708, queue = 30948, heur = -9.0, depth = 9
iter = 22709, queue = 30947, heur = -9.0, depth = 9
iter = 22710, queue = 30948, heur = -9.0, depth = 9
iter = 22711, queue = 30949, heur = -9.0, depth = 9
iter = 22712, queue = 30951, heur = -9.0, depth = 11
iter = 22713, queue = 30952, heur = -9.0, depth = 11
```

```
iter = 22714, queue = 30955, heur = -9.0, depth = 9
iter = 22715, queue = 30956, heur = -9.0, depth = 9
iter = 22716, queue = 30955, heur = -9.0, depth = 9
iter = 22717, queue = 30955, heur = -9.0, depth = 9
iter = 22718, queue = 30955, heur = -9.0, depth = 9
iter = 22719, queue = 30957, heur = -9.0, depth = 9
iter = 22720, queue = 30958, heur = -9.0, depth = 9
iter = 22721, queue = 30957, heur = -9.0, depth = 9
iter = 22722, queue = 30958, heur = -9.0, depth = 9
iter = 22723, queue = 30960, heur = -9.0, depth = 9
iter = 22724, queue = 30962, heur = -9.0, depth = 9
iter = 22725, queue = 30964, heur = -9.0, depth = 9
iter = 22726, queue = 30965, heur = -9.0, depth = 9
iter = 22727, queue = 30966, heur = -9.0, depth = 9
iter = 22728, queue = 30967, heur = -9.0, depth = 9
iter = 22729, queue = 30968, heur = -9.0, depth = 9
iter = 22730, queue = 30969, heur = -9.0, depth = 9
iter = 22731, queue = 30969, heur = -9.0, depth = 9
iter = 22732, queue = 30970, heur = -9.0, depth = 9
iter = 22733, queue = 30970, heur = -9.0, depth = 9
iter = 22734, queue = 30973, heur = -9.0, depth = 9
iter = 22735, queue = 30973, heur = -9.0, depth = 10
iter = 22736, queue = 30974, heur = -9.0, depth = 9
iter = 22737, queue = 30977, heur = -9.0, depth = 9
iter = 22738, queue = 30978, heur = -9.0, depth = 9
iter = 22739, queue = 30981, heur = -9.0, depth = 9
iter = 22740, queue = 30982, heur = -9.0, depth = 9
iter = 22741, queue = 30983, heur = -9.0, depth = 9
iter = 22742, queue = 30984, heur = -9.0, depth = 9
iter = 22743, queue = 30985, heur = -9.0, depth = 9
iter = 22744, queue = 30987, heur = -9.0, depth = 9
iter = 22745, queue = 30988, heur = -9.0, depth = 9
iter = 22746, queue = 30989, heur = -9.0, depth = 9
iter = 22747, queue = 30988, heur = -9.0, depth = 9
iter = 22748, queue = 30989, heur = -9.0, depth = 9
iter = 22749, queue = 30990, heur = -9.0, depth = 9
iter = 22750, queue = 30991, heur = -9.0, depth = 9
iter = 22751, queue = 30994, heur = -9.0, depth = 9
iter = 22752, queue = 30994, heur = -9.0, depth = 9
iter = 22753, queue = 30994, heur = -9.0, depth = 9
iter = 22754, queue = 30995, heur = -9.0, depth = 9
iter = 22755, queue = 30996, heur = -9.0, depth = 9
iter = 22756, queue = 30995, heur = -9.0, depth = 9
iter = 22757, queue = 30996, heur = -9.0, depth = 9
iter = 22758, queue = 30997, heur = -9.0, depth = 9
iter = 22759, queue = 31000, heur = -9.0, depth = 9
iter = 22760, queue = 30999, heur = -9.0, depth = 9
iter = 22761, queue = 30999, heur = -9.0, depth = 9
iter = 22762, queue = 31000, heur = -9.0, depth = 9
iter = 22763, queue = 31001, heur = -9.0, depth = 9
iter = 22764, queue = 31002, heur = -9.0, depth = 9
iter = 22765, queue = 31001, heur = -9.0, depth = 9
iter = 22766, queue = 31004, heur = -9.0, depth = 9
iter = 22767, queue = 31005, heur = -9.0, depth = 9
iter = 22768, queue = 31005, heur = -9.0, depth = 9
iter = 22769, queue = 31006, heur = -9.0, depth = 9
iter = 22770, queue = 31007, heur = -9.0, depth = 9
iter = 22771, queue = 31010, heur = -9.0, depth = 9
iter = 22772, queue = 31011, heur = -9.0, depth = 9
```

```
iter = 22773, queue = 31010, heur = -9.0, depth = 9
iter = 22774, queue = 31011, heur = -9.0, depth = 9
iter = 22775, queue = 31012, heur = -9.0, depth = 9
iter = 22776, queue = 31013, heur = -9.0, depth = 9
iter = 22777, queue = 31016, heur = -9.0, depth = 9
iter = 22778, queue = 31017, heur = -9.0, depth = 9
iter = 22779, queue = 31019, heur = -9.0, depth = 9
iter = 22780, queue = 31020, heur = -9.0, depth = 9
iter = 22781, queue = 31023, heur = -9.0, depth = 9
iter = 22782, queue = 31025, heur = -9.0, depth = 9
iter = 22783, queue = 31025, heur = -9.0, depth = 9
iter = 22784, queue = 31027, heur = -9.0, depth = 9
iter = 22785, queue = 31030, heur = -9.0, depth = 9
iter = 22786, queue = 31031, heur = -9.0, depth = 9
iter = 22787, queue = 31032, heur = -9.0, depth = 9
iter = 22788, queue = 31035, heur = -9.0, depth = 9
iter = 22789, queue = 31035, heur = -9.0, depth = 9
iter = 22790, queue = 31037, heur = -9.0, depth = 10
iter = 22791, queue = 31038, heur = -9.0, depth = 9
iter = 22792, queue = 31038, heur = -9.0, depth = 9
iter = 22793, queue = 31040, heur = -9.0, depth = 9
iter = 22794, queue = 31042, heur = -9.0, depth = 9
iter = 22795, queue = 31041, heur = -9.0, depth = 9
iter = 22796, queue = 31042, heur = -9.0, depth = 9
iter = 22797, queue = 31042, heur = -9.0, depth = 9
iter = 22798, queue = 31042, heur = -9.0, depth = 9
iter = 22799, queue = 31043, heur = -9.0, depth = 9
iter = 22800, queue = 31042, heur = -9.0, depth = 9
iter = 22801, queue = 31043, heur = -9.0, depth = 9
iter = 22802, queue = 31044, heur = -9.0, depth = 9
iter = 22803, queue = 31047, heur = -9.0, depth = 9
iter = 22804, queue = 31046, heur = -9.0, depth = 9
iter = 22805, queue = 31045, heur = -9.0, depth = 9
iter = 22806, queue = 31046, heur = -9.0, depth = 9
iter = 22807, queue = 31049, heur = -9.0, depth = 9
iter = 22808, queue = 31050, heur = -9.0, depth = 9
iter = 22809, queue = 31050, heur = -9.0, depth = 9
iter = 22810, queue = 31049, heur = -9.0, depth = 9
iter = 22811, queue = 31048, heur = -9.0, depth = 9
iter = 22812, queue = 31049, heur = -9.0, depth = 9
iter = 22813, queue = 31052, heur = -9.0, depth = 9
iter = 22814, queue = 31055, heur = -9.0, depth = 9
iter = 22815, queue = 31056, heur = -9.0, depth = 9
iter = 22816, queue = 31058, heur = -9.0, depth = 9
iter = 22817, queue = 31060, heur = -9.0, depth = 9
iter = 22818, queue = 31061, heur = -9.0, depth = 10
iter = 22819, queue = 31062, heur = -9.0, depth = 9
iter = 22820, queue = 31063, heur = -9.0, depth = 9
iter = 22821, queue = 31065, heur = -9.0, depth = 9
iter = 22822, queue = 31064, heur = -9.0, depth = 9
iter = 22823, queue = 31064, heur = -9.0, depth = 9
iter = 22824, queue = 31064, heur = -9.0, depth = 9
iter = 22825, queue = 31063, heur = -9.0, depth = 9
iter = 22826, queue = 31064, heur = -9.0, depth = 9
iter = 22827, queue = 31065, heur = -9.0, depth = 9
iter = 22828, queue = 31064, heur = -9.0, depth = 11
iter = 22829, queue = 31064, heur = -9.0, depth = 9
iter = 22830, queue = 31063, heur = -9.0, depth = 9
iter = 22831, queue = 31064, heur = -9.0, depth = 9
```

```
iter = 22832, queue = 31063, heur = -9.0, depth = 9
iter = 22833, queue = 31064, heur = -9.0, depth = 9
iter = 22834, queue = 31067, heur = -9.0, depth = 9
iter = 22835, queue = 31068, heur = -9.0, depth = 9
iter = 22836, queue = 31070, heur = -9.0, depth = 9
iter = 22837, queue = 31071, heur = -9.0, depth = 9
iter = 22838, queue = 31071, heur = -9.0, depth = 9
iter = 22839, queue = 31071, heur = -9.0, depth = 9
iter = 22840, queue = 31072, heur = -9.0, depth = 10
iter = 22841, queue = 31075, heur = -9.0, depth = 9
iter = 22842, queue = 31074, heur = -9.0, depth = 9
iter = 22843, queue = 31074, heur = -9.0, depth = 11
iter = 22844, queue = 31074, heur = -9.0, depth = 9
iter = 22845, queue = 31074, heur = -9.0, depth = 9
iter = 22846, queue = 31075, heur = -9.0, depth = 9
iter = 22847, queue = 31075, heur = -9.0, depth = 9
iter = 22848, queue = 31076, heur = -9.0, depth = 9
iter = 22849, queue = 31076, heur = -9.0, depth = 9
iter = 22850, queue = 31078, heur = -9.0, depth = 9
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
```

```
iter = 22891, queue = 31107, heur = -9.0, depth = 9
iter = 22892, queue = 31108, heur = -9.0, depth = 9
iter = 22893, queue = 31110, heur = -9.0, depth = 9
iter = 22894, queue = 31111, heur = -9.0, depth = 12
iter = 22895, queue = 31111, heur = -9.0, depth = 9
iter = 22896, queue = 31113, heur = -9.0, depth = 9
iter = 22897, queue = 31114, heur = -9.0, depth = 9
iter = 22898, queue = 31114, heur = -9.0, depth = 9
iter = 22899, queue = 31113, heur = -9.0, depth = 9
iter = 22900, queue = 31113, heur = -9.0, depth = 9
iter = 22901, queue = 31116, heur = -9.0, depth = 9
iter = 22902, queue = 31117, heur = -9.0, depth = 9
iter = 22903, queue = 31116, heur = -9.0, depth = 10
iter = 22904, queue = 31117, heur = -9.0, depth = 9
iter = 22905, queue = 31116, heur = -9.0, depth = 10
iter = 22906, queue = 31117, heur = -9.0, depth = 10
iter = 22907, queue = 31120, heur = -9.0, depth = 9
iter = 22908, queue = 31120, heur = -9.0, depth = 9
iter = 22909, queue = 31123, heur = -9.0, depth = 9
iter = 22910, queue = 31125, heur = -9.0, depth = 9
iter = 22911, queue = 31126, heur = -9.0, depth = 9
iter = 22912, queue = 31126, heur = -9.0, depth = 9
iter = 22913, queue = 31128, heur = -9.0, depth = 9
iter = 22914, queue = 31128, heur = -9.0, depth = 9
iter = 22915, queue = 31129, heur = -9.0, depth = 9
iter = 22916, queue = 31129, heur = -9.0, depth = 9
iter = 22917, queue = 31129, heur = -9.0, depth = 9
iter = 22918, queue = 31128, heur = -9.0, depth = 9
iter = 22919, queue = 31129, heur = -9.0, depth = 9
iter = 22920, queue = 31130, heur = -9.0, depth = 10
iter = 22921, queue = 31131, heur = -9.0, depth = 9
iter = 22922, queue = 31133, heur = -9.0, depth = 9
iter = 22923, queue = 31134, heur = -9.0, depth = 9
iter = 22924, queue = 31135, heur = -9.0, depth = 9
iter = 22925, queue = 31136, heur = -9.0, depth = 9
iter = 22926, queue = 31137, heur = -9.0, depth = 9
iter = 22927, queue = 31139, heur = -9.0, depth = 9
iter = 22928, queue = 31139, heur = -9.0, depth = 9
iter = 22929, queue = 31140, heur = -9.0, depth = 9
iter = 22930, queue = 31139, heur = -9.0, depth = 9
iter = 22931, queue = 31141, heur = -9.0, depth = 9
iter = 22932, queue = 31142, heur = -9.0, depth = 9
iter = 22933, queue = 31142, heur = -9.0, depth = 9
iter = 22934, queue = 31142, heur = -9.0, depth = 9
iter = 22935, queue = 31143, heur = -9.0, depth = 10
iter = 22936, queue = 31144, heur = -9.0, depth = 9
iter = 22937, queue = 31145, heur = -9.0, depth = 9
iter = 22938, queue = 31144, heur = -9.0, depth = 10
iter = 22939, queue = 31144, heur = -9.0, depth = 9
iter = 22940, queue = 31144, heur = -9.0, depth = 9
iter = 22941, queue = 31143, heur = -9.0, depth = 9
iter = 22942, queue = 31143, heur = -9.0, depth = 9
iter = 22943, queue = 31145, heur = -9.0, depth = 9
iter = 22944, queue = 31146, heur = -9.0, depth = 9
iter = 22945, queue = 31146, heur = -9.0, depth = 9
iter = 22946, queue = 31148, heur = -9.0, depth = 9
iter = 22947, queue = 31148, heur = -9.0, depth = 9
iter = 22948, queue = 31148, heur = -9.0, depth = 9
iter = 22949, queue = 31148, heur = -9.0, depth = 10
```

```
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
```

```
iter = 23009, queue = 31185, heur = -9.0, depth = 9
iter = 23010, queue = 31186, heur = -9.0, depth = 9
iter = 23011, queue = 31187, heur = -9.0, depth = 9
iter = 23012, queue = 31190, heur = -9.0, depth = 9
iter = 23013, queue = 31189, heur = -9.0, depth = 9
iter = 23014, queue = 31190, heur = -9.0, depth = 9
iter = 23015, queue = 31193, heur = -9.0, depth = 9
iter = 23016, queue = 31194, heur = -9.0, depth = 9
iter = 23017, queue = 31195, heur = -9.0, depth = 9
iter = 23018, queue = 31197, heur = -9.0, depth = 10
iter = 23019, queue = 31198, heur = -9.0, depth = 9
iter = 23020, queue = 31199, heur = -9.0, depth = 9
iter = 23021, queue = 31199, heur = -9.0, depth = 9
iter = 23022, queue = 31199, heur = -9.0, depth = 9
iter = 23023, queue = 31199, heur = -9.0, depth = 9
iter = 23024, queue = 31198, heur = -9.0, depth = 9
iter = 23025, queue = 31197, heur = -9.0, depth = 9
iter = 23026, queue = 31198, heur = -9.0, depth = 9
iter = 23027, queue = 31197, heur = -9.0, depth = 9
iter = 23028, queue = 31196, heur = -9.0, depth = 9
iter = 23029, queue = 31197, heur = -9.0, depth = 9
iter = 23030, queue = 31198, heur = -9.0, depth = 9
iter = 23031, queue = 31198, heur = -9.0, depth = 9
iter = 23032, queue = 31197, heur = -9.0, depth = 9
iter = 23033, queue = 31196, heur = -9.0, depth = 9
iter = 23034, queue = 31195, heur = -9.0, depth = 9
iter = 23035, queue = 31197, heur = -9.0, depth = 9
iter = 23036, queue = 31197, heur = -9.0, depth = 9
iter = 23037, queue = 31198, heur = -9.0, depth = 9
iter = 23038, queue = 31197, heur = -9.0, depth = 9
iter = 23039, queue = 31200, heur = -9.0, depth = 9
iter = 23040, queue = 31202, heur = -9.0, depth = 9
iter = 23041, queue = 31203, heur = -9.0, depth = 9
iter = 23042, queue = 31202, heur = -9.0, depth = 9
iter = 23043, queue = 31204, heur = -9.0, depth = 10
iter = 23044, queue = 31206, heur = -9.0, depth = 9
iter = 23045, queue = 31205, heur = -9.0, depth = 9
iter = 23046, queue = 31206, heur = -9.0, depth = 9
iter = 23047, queue = 31207, heur = -9.0, depth = 9
iter = 23048, queue = 31209, heur = -9.0, depth = 9
iter = 23049, queue = 31208, heur = -9.0, depth = 9
iter = 23050, queue = 31211, heur = -9.0, depth = 9
iter = 23051, queue = 31211, heur = -9.0, depth = 9
iter = 23052, queue = 31213, heur = -9.0, depth = 9
iter = 23053, queue = 31213, heur = -9.0, depth = 9
iter = 23054, queue = 31213, heur = -9.0, depth = 9
iter = 23055, queue = 31214, heur = -9.0, depth = 9
iter = 23056, queue = 31215, heur = -9.0, depth = 9
iter = 23057, queue = 31214, heur = -9.0, depth = 9
iter = 23058, queue = 31217, heur = -9.0, depth = 9
iter = 23059, queue = 31218, heur = -9.0, depth = 9
iter = 23060, queue = 31217, heur = -9.0, depth = 9
iter = 23061, queue = 31218, heur = -9.0, depth = 9
iter = 23062, queue = 31219, heur = -9.0, depth = 9
iter = 23063, queue = 31222, heur = -9.0, depth = 9
iter = 23064, queue = 31223, heur = -9.0, depth = 9
iter = 23065, queue = 31224, heur = -9.0, depth = 9
iter = 23066, queue = 31224, heur = -9.0, depth = 9
iter = 23067, queue = 31225, heur = -9.0, depth = 9
```

```
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']
П
['G']
                    STATE 6
['A', 'B', 'C', 'D']
['E']
П
['G', 'F']
                    STATE 7
['A', 'B', 'C', 'D', 'E']
['G', 'F']
                    STATE 8
['A', 'B', 'C', 'D', 'E', 'F']
\prod
['G']
                    STATE 9
['A', 'B', 'C', 'D', 'E', 'F', 'G']
\prod
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']
['I', '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']
['I', 'F', 'D', 'C']
                     STATE 2
['G', 'H', 'E']
['A', 'B']
['I', 'F', 'D', 'C']
                     STATE 3
[]
```

```
['G', 'H', 'E']
['A']
['I', 'F', 'D', 'C', 'B']
                     STATE 4
['A']
['G', 'H', 'E']
['I', 'F', 'D', 'C', 'B']
                     STATE 5
['A', 'B']
['G', 'H', 'E']
['I', 'F', 'D', 'C']
                     STATE 6
['A', 'B', 'C']
['G', 'H', 'E']
['I', 'F', 'D']
                     STATE 7
['A', 'B', 'C', 'D']
['G', 'H', 'E']
['I', 'F']
                     STATE 8
['A', 'B', 'C', 'D', 'E']
['G', 'H']
['I', 'F']
                     STATE 9
['A', 'B', 'C', 'D', 'E', 'F']
['G', 'H']
П
['I']
                     STATE 10
['A', 'B', 'C', 'D', 'E', 'F']
['G']
['I', 'H']
                     STATE 11____
['A', 'B', 'C', 'D', 'E', 'F', 'G']
[]
['I', 'H']
                     STATE 12
['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H']
[]
['I']
                     STATE 13
['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'I']
[]
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
iter = 20, queue = 126, heur = -2.0, depth = 2
iter = 21, queue = 132, heur = -2.0, depth = 2
iter = 22, queue = 139, heur = -2.0, depth = 2
iter = 23, queue = 147, heur = -2.0, depth = 2
iter = 24, queue = 155, heur = -2.0, depth = 2
iter = 25, queue = 156, heur = -2.0, depth = 2
iter = 26, queue = 164, heur = -2.0, depth = 2
iter = 27, queue = 171, heur = -2.0, depth = 2
iter = 28, queue = 177, heur = -2.0, depth = 2
iter = 29, queue = 179, heur = -2.0, depth = 2
iter = 30, queue = 186, heur = -2.0, depth = 2
iter = 31, queue = 188, heur = -2.0, depth = 2
iter = 32, queue = 195, heur = -2.0, depth = 2
iter = 33, queue = 199, heur = -2.0, depth = 2
iter = 34, queue = 206, heur = -2.0, depth = 2
iter = 35, queue = 210, heur = -2.0, depth = 2
iter = 36, queue = 216, heur = -2.0, depth = 2
iter = 37, queue = 220, heur = -2.0, depth = 2
iter = 38, queue = 225, heur = -2.0, depth = 2
iter = 39, queue = 229, heur = -2.0, depth = 2
iter = 40, queue = 234, heur = -2.0, depth = 2
iter = 41, queue = 236, heur = -2.0, depth = 2
iter = 42, queue = 239, heur = -2.0, depth = 3
iter = 43, queue = 243, heur = -2.0, depth = 2
iter = 44, queue = 247, heur = -2.0, depth = 2
iter = 45, queue = 253, heur = -2.0, depth = 4
iter = 46, queue = 258, heur = -2.0, depth = 2
iter = 47, queue = 261, heur = -2.0, depth = 2
iter = 48, queue = 264, heur = -2.0, depth = 3
iter = 49, queue = 268, heur = -2.0, depth = 2
iter = 50, queue = 273, heur = -2.0, depth = 2
iter = 51, queue = 278, heur = -2.0, depth = 2
iter = 52, queue = 282, heur = -2.0, depth = 2
iter = 53, queue = 289, heur = -2.0, depth = 2
iter = 54, queue = 290, heur = -2.0, depth = 2
iter = 55, queue = 295, heur = -2.0, depth = 2
iter = 56, queue = 300, heur = -2.0, depth = 2
iter = 57, queue = 304, heur = -2.0, depth = 2
iter = 58, queue = 308, heur = -2.0, depth = 3
```

```
iter = 59, queue = 310, heur = -2.0, depth = 2
iter = 60, queue = 318, heur = -2.0, depth = 2
iter = 61, queue = 323, heur = -2.0, depth = 2
iter = 62, queue = 329, heur = -2.0, depth = 2
iter = 63, queue = 337, heur = -2.0, depth = 2
iter = 64, queue = 341, heur = -2.0, depth = 2
iter = 65, queue = 345, heur = -2.0, depth = 2
iter = 66, queue = 349, heur = -2.0, depth = 2
iter = 67, queue = 356, heur = -2.0, depth = 2
iter = 68, queue = 360, heur = -2.0, depth = 2
iter = 69, queue = 363, heur = -2.0, depth = 2
iter = 70, queue = 365, heur = -2.0, depth = 2
iter = 71, queue = 366, heur = -2.0, depth = 2
iter = 72, queue = 369, heur = -2.0, depth = 2
iter = 73, queue = 373, heur = -2.0, depth = 2
iter = 74, queue = 379, heur = -2.0, depth = 3
iter = 75, queue = 381, heur = -2.0, depth = 2
iter = 76, queue = 387, heur = -2.0, depth = 2
iter = 77, queue = 391, heur = -2.0, depth = 2
iter = 78, queue = 394, heur = -2.0, depth = 2
iter = 79, queue = 396, heur = -2.0, depth = 2
iter = 80, queue = 403, heur = -2.0, depth = 2
iter = 81, queue = 404, heur = -2.0, depth = 2
iter = 82, queue = 409, heur = -2.0, depth = 3
iter = 83, queue = 411, heur = -2.0, depth = 2
iter = 84, queue = 414, heur = -2.0, depth = 2
iter = 85, queue = 415, heur = -2.0, depth = 3
iter = 86, queue = 417, heur = -2.0, depth = 2
iter = 87, queue = 418, heur = -2.0, depth = 2
iter = 88, queue = 419, heur = -2.0, depth = 2
iter = 89, queue = 427, heur = -2.0, depth = 2
iter = 90, queue = 431, heur = -2.0, depth = 2
iter = 91, queue = 435, heur = -2.0, depth = 2
iter = 92, queue = 439, heur = -2.0, depth = 2
iter = 93, queue = 443, heur = -2.0, depth = 2
iter = 94, queue = 446, heur = -2.0, depth = 2
iter = 95, queue = 453, heur = -2.0, depth = 2
iter = 96, queue = 460, heur = -2.0, depth = 2
iter = 97, queue = 461, heur = -2.0, depth = 2
iter = 98, queue = 462, heur = -2.0, depth = 2
iter = 99, queue = 463, heur = -2.0, depth = 2
iter = 100, queue = 466, heur = -2.0, depth = 2
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
iter = 112, queue = 514, heur = -3.0, depth = 8
iter = 113, queue = 521, heur = -3.0, depth = 9
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
iter = 125, queue = 591, heur = -3.0, depth = 8
iter = 126, queue = 596, heur = -3.0, depth = 3
iter = 127, queue = 601, heur = -3.0, depth = 3
iter = 128, queue = 606, heur = -3.0, depth = 5
iter = 129, queue = 611, heur = -3.0, depth = 8
iter = 130, queue = 616, heur = -3.0, depth = 3
iter = 131, queue = 624, heur = -3.0, depth = 8
iter = 132, queue = 631, heur = -3.0, depth = 8
iter = 133, queue = 635, heur = -3.0, depth = 3
iter = 134, queue = 637, heur = -3.0, depth = 3
iter = 135, queue = 642, heur = -3.0, depth = 3
iter = 136, queue = 648, heur = -3.0, depth = 3
iter = 137, queue = 655, heur = -3.0, depth = 3
iter = 138, queue = 658, heur = -3.0, depth = 3
iter = 139, queue = 666, heur = -3.0, depth = 3
iter = 140, queue = 669, heur = -3.0, depth = 7
iter = 141, queue = 673, heur = -3.0, depth = 3
iter = 142, queue = 680, heur = -3.0, depth = 3
iter = 143, queue = 683, heur = -3.0, depth = 7
iter = 144, queue = 688, heur = -3.0, depth = 7
iter = 145, queue = 692, heur = -3.0, depth = 3
iter = 146, queue = 700, heur = -3.0, depth = 7
iter = 147, queue = 706, heur = -3.0, depth = 3
iter = 148, queue = 709, heur = -3.0, depth = 4
iter = 149, queue = 716, heur = -3.0, depth = 3
iter = 150, queue = 720, heur = -3.0, depth = 3
iter = 151, queue = 722, heur = -3.0, depth = 3
iter = 152, queue = 726, heur = -3.0, depth = 3
iter = 153, queue = 730, heur = -3.0, depth = 3
iter = 154, queue = 732, heur = -3.0, depth = 3
iter = 155, queue = 739, heur = -3.0, depth = 3
iter = 156, queue = 746, heur = -3.0, depth = 3
iter = 157, queue = 753, heur = -3.0, depth = 3
iter = 158, queue = 755, heur = -3.0, depth = 3
iter = 159, queue = 756, heur = -3.0, depth = 6
iter = 160, queue = 760, heur = -3.0, depth = 3
iter = 161, queue = 765, heur = -3.0, depth = 3
iter = 162, queue = 770, heur = -3.0, depth = 6
iter = 163, queue = 774, heur = -3.0, depth = 6
iter = 164, queue = 780, heur = -3.0, depth = 3
iter = 165, queue = 785, heur = -3.0, depth = 3
iter = 166, queue = 792, heur = -3.0, depth = 3
iter = 167, queue = 796, heur = -3.0, depth = 6
iter = 168, queue = 800, heur = -3.0, depth = 3
iter = 169, queue = 805, heur = -3.0, depth = 3
iter = 170, queue = 809, heur = -3.0, depth = 3
iter = 171, queue = 815, heur = -3.0, depth = 3
iter = 172, queue = 820, heur = -3.0, depth = 3
iter = 173, queue = 824, heur = -3.0, depth = 3
iter = 174, queue = 828, heur = -3.0, depth = 5
iter = 175, queue = 833, heur = -3.0, depth = 4
iter = 176, queue = 837, heur = -3.0, depth = 4
```

```
iter = 177, queue = 843, heur = -3.0, depth = 3
iter = 178, queue = 850, heur = -3.0, depth = 3
iter = 179, queue = 858, heur = -3.0, depth = 3
iter = 180, queue = 865, heur = -3.0, depth = 3
iter = 181, queue = 870, heur = -3.0, depth = 3
iter = 182, queue = 877, heur = -3.0, depth = 3
iter = 183, queue = 881, heur = -3.0, depth = 4
iter = 184, queue = 885, heur = -3.0, depth = 3
iter = 185, queue = 891, heur = -3.0, depth = 3
iter = 186, queue = 895, heur = -3.0, depth = 3
iter = 187, queue = 900, heur = -3.0, depth = 3
iter = 188, queue = 907, heur = -3.0, depth = 3
iter = 189, queue = 913, heur = -3.0, depth = 3
iter = 190, queue = 919, heur = -3.0, depth = 3
iter = 191, queue = 920, heur = -3.0, depth = 3
iter = 192, queue = 927, heur = -3.0, depth = 3
iter = 193, queue = 933, heur = -3.0, depth = 3
iter = 194, queue = 937, heur = -3.0, depth = 3
iter = 195, queue = 944, heur = -3.0, depth = 3
iter = 196, queue = 949, heur = -3.0, depth = 3
iter = 197, queue = 956, heur = -3.0, depth = 3
iter = 198, queue = 958, heur = -3.0, depth = 3
iter = 199, queue = 957, heur = -3.0, depth = 3
iter = 200, queue = 964, heur = -3.0, depth = 3
iter = 201, queue = 968, heur = -3.0, depth = 3
iter = 202, queue = 970, heur = -3.0, depth = 3
iter = 203, queue = 975, heur = -3.0, depth = 3
iter = 204, queue = 982, heur = -3.0, depth = 3
iter = 205, queue = 984, heur = -3.0, depth = 3
iter = 206, queue = 988, heur = -3.0, depth = 3
iter = 207, queue = 992, heur = -3.0, depth = 3
iter = 208, queue = 996, heur = -3.0, depth = 3
iter = 209, queue = 1004, heur = -3.0, depth = 3
iter = 210, queue = 1009, heur = -3.0, depth = 4
iter = 211, queue = 1012, heur = -3.0, depth = 4
iter = 212, queue = 1014, heur = -3.0, depth = 3
iter = 213, queue = 1020, heur = -3.0, depth = 3
iter = 214, queue = 1025, heur = -3.0, depth = 3
iter = 215, queue = 1030, heur = -3.0, depth = 3
iter = 216, queue = 1031, heur = -3.0, depth = 3
iter = 217, queue = 1035, heur = -3.0, depth = 3
iter = 218, queue = 1040, heur = -3.0, depth = 3
iter = 219, queue = 1047, heur = -3.0, depth = 3
iter = 220, queue = 1050, heur = -3.0, depth = 3
iter = 221, queue = 1055, heur = -3.0, depth = 3
iter = 222, queue = 1060, heur = -3.0, depth = 3
iter = 223, queue = 1063, heur = -3.0, depth = 3
iter = 224, queue = 1066, heur = -3.0, depth = 3
iter = 225, queue = 1074, heur = -3.0, depth = 3
iter = 226, queue = 1078, heur = -3.0, depth = 3
iter = 227, queue = 1083, heur = -3.0, depth = 3
iter = 228, queue = 1086, heur = -3.0, depth = 3
iter = 229, queue = 1091, heur = -3.0, depth = 3
iter = 230, queue = 1090, heur = -3.0, depth = 3
iter = 231, queue = 1093, heur = -3.0, depth = 3
iter = 232, queue = 1094, heur = -3.0, depth = 3
iter = 233, queue = 1095, heur = -3.0, depth = 3
iter = 234, queue = 1097, heur = -3.0, depth = 3
iter = 235, queue = 1096, heur = -3.0, depth = 3
```

```
iter = 236, queue = 1100, heur = -3.0, depth = 3
iter = 237, queue = 1107, heur = -3.0, depth = 3
iter = 238, queue = 1114, heur = -3.0, depth = 3
iter = 239, queue = 1116, heur = -3.0, depth = 3
iter = 240, queue = 1124, heur = -3.0, depth = 3
iter = 241, queue = 1128, heur = -3.0, depth = 3
iter = 242, queue = 1133, heur = -3.0, depth = 3
iter = 243, queue = 1134, heur = -3.0, depth = 3
iter = 244, queue = 1138, heur = -3.0, depth = 3
iter = 245, queue = 1143, heur = -3.0, depth = 3
iter = 246, queue = 1145, heur = -3.0, depth = 3
iter = 247, queue = 1150, heur = -3.0, depth = 3
iter = 248, queue = 1151, heur = -3.0, depth = 3
iter = 249, queue = 1158, heur = -3.0, depth = 3
iter = 250, queue = 1162, heur = -3.0, depth = 3
iter = 251, queue = 1166, heur = -3.0, depth = 3
iter = 252, queue = 1173, heur = -3.0, depth = 3
iter = 253, queue = 1175, heur = -3.0, depth = 3
iter = 254, queue = 1182, heur = -3.0, depth = 3
iter = 255, queue = 1186, heur = -3.0, depth = 3
iter = 256, queue = 1191, heur = -3.0, depth = 3
iter = 257, queue = 1192, heur = -3.0, depth = 3
iter = 258, queue = 1198, heur = -3.0, depth = 3
iter = 259, queue = 1205, heur = -3.0, depth = 3
iter = 260, queue = 1209, heur = -3.0, depth = 3
iter = 261, queue = 1216, heur = -3.0, depth = 3
iter = 262, queue = 1219, heur = -3.0, depth = 3
iter = 263, queue = 1226, heur = -3.0, depth = 3
iter = 264, queue = 1230, heur = -3.0, depth = 3
iter = 265, queue = 1232, heur = -3.0, depth = 3
iter = 266, queue = 1235, heur = -3.0, depth = 3
iter = 267, queue = 1243, heur = -3.0, depth = 3
iter = 268, queue = 1245, heur = -3.0, depth = 3
iter = 269, queue = 1246, heur = -3.0, depth = 3
iter = 270, queue = 1250, heur = -3.0, depth = 3
iter = 271, queue = 1257, heur = -3.0, depth = 3
iter = 272, queue = 1256, heur = -3.0, depth = 3
iter = 273, queue = 1259, heur = -3.0, depth = 3
iter = 274, queue = 1261, heur = -3.0, depth = 3
iter = 275, queue = 1263, heur = -3.0, depth = 3
iter = 276, queue = 1266, heur = -3.0, depth = 3
iter = 277, queue = 1267, heur = -3.0, depth = 3
iter = 278, queue = 1271, heur = -3.0, depth = 3
iter = 279, queue = 1278, heur = -3.0, depth = 3
iter = 280, queue = 1281, heur = -3.0, depth = 3
iter = 281, queue = 1288, heur = -3.0, depth = 3
iter = 282, queue = 1290, heur = -3.0, depth = 3
iter = 283, queue = 1297, heur = -3.0, depth = 3
iter = 284, queue = 1304, heur = -3.0, depth = 3
iter = 285, queue = 1305, heur = -3.0, depth = 3
iter = 286, queue = 1308, heur = -3.0, depth = 3
iter = 287, queue = 1314, heur = -3.0, depth = 3
iter = 288, queue = 1321, heur = -3.0, depth = 3
iter = 289, queue = 1323, heur = -3.0, depth = 3
iter = 290, queue = 1330, heur = -3.0, depth = 3
iter = 291, queue = 1332, heur = -3.0, depth = 3
iter = 292, queue = 1340, heur = -3.0, depth = 3
iter = 293, queue = 1347, heur = -3.0, depth = 3
iter = 294, queue = 1350, heur = -3.0, depth = 3
```

```
iter = 295, queue = 1352, heur = -3.0, depth = 3
iter = 296, queue = 1353, heur = -3.0, depth = 3
iter = 297, queue = 1356, heur = -3.0, depth = 3
iter = 298, queue = 1363, heur = -3.0, depth = 3
iter = 299, queue = 1367, heur = -3.0, depth = 3
iter = 300, queue = 1369, heur = -3.0, depth = 3
iter = 301, queue = 1370, heur = -3.0, depth = 3
iter = 302, queue = 1372, heur = -3.0, depth = 3
iter = 303, queue = 1377, heur = -3.0, depth = 3
iter = 304, queue = 1381, heur = -3.0, depth = 3
iter = 305, queue = 1385, heur = -3.0, depth = 3
iter = 306, queue = 1391, heur = -3.0, depth = 3
iter = 307, queue = 1397, heur = -3.0, depth = 4
iter = 308, queue = 1404, heur = -3.0, depth = 5
iter = 309, queue = 1408, heur = -3.0, depth = 3
iter = 310, queue = 1410, heur = -3.0, depth = 3
iter = 311, queue = 1413, heur = -3.0, depth = 3
iter = 312, queue = 1417, heur = -3.0, depth = 3
iter = 313, queue = 1421, heur = -3.0, depth = 4
iter = 314, queue = 1426, heur = -3.0, depth = 3
iter = 315, queue = 1430, heur = -3.0, depth = 3
iter = 316, queue = 1431, heur = -3.0, depth = 3
iter = 317, queue = 1436, heur = -3.0, depth = 3
iter = 318, queue = 1440, heur = -3.0, depth = 3
iter = 319, queue = 1446, heur = -3.0, depth = 3
iter = 320, queue = 1451, heur = -3.0, depth = 3
iter = 321, queue = 1455, heur = -3.0, depth = 4
iter = 322, queue = 1458, heur = -3.0, depth = 3
iter = 323, queue = 1460, heur = -3.0, depth = 4
iter = 324, queue = 1462, heur = -3.0, depth = 3
iter = 325, queue = 1466, heur = -3.0, depth = 3
iter = 326, queue = 1470, heur = -3.0, depth = 3
iter = 327, queue = 1474, heur = -3.0, depth = 3
iter = 328, queue = 1475, heur = -3.0, depth = 3
iter = 329, queue = 1477, heur = -3.0, depth = 3
iter = 330, queue = 1478, heur = -3.0, depth = 3
iter = 331, queue = 1480, heur = -3.0, depth = 3
iter = 332, queue = 1485, heur = -3.0, depth = 3
iter = 333, queue = 1487, heur = -3.0, depth = 3
iter = 334, queue = 1490, heur = -3.0, depth = 3
iter = 335, queue = 1493, heur = -3.0, depth = 3
iter = 336, queue = 1496, heur = -3.0, depth = 3
iter = 337, queue = 1500, heur = -3.0, depth = 3
iter = 338, queue = 1502, heur = -3.0, depth = 3
iter = 339, queue = 1507, heur = -3.0, depth = 3
iter = 340, queue = 1509, heur = -3.0, depth = 3
iter = 341, queue = 1511, heur = -3.0, depth = 3
iter = 342, queue = 1515, heur = -3.0, depth = 3
iter = 343, queue = 1518, heur = -3.0, depth = 3
iter = 344, queue = 1523, heur = -3.0, depth = 3
iter = 345, queue = 1525, heur = -3.0, depth = 3
iter = 346, queue = 1528, heur = -3.0, depth = 3
iter = 347, queue = 1532, heur = -3.0, depth = 3
iter = 348, queue = 1533, heur = -3.0, depth = 3
iter = 349, queue = 1535, heur = -3.0, depth = 3
iter = 350, queue = 1540, heur = -3.0, depth = 3
iter = 351, queue = 1539, heur = -3.0, depth = 3
iter = 352, queue = 1545, heur = -3.0, depth = 3
iter = 353, queue = 1550, heur = -3.0, depth = 3
```

```
iter = 354, queue = 1551, heur = -3.0, depth = 3
iter = 355, queue = 1556, heur = -3.0, depth = 3
iter = 356, queue = 1557, heur = -3.0, depth = 3
iter = 357, queue = 1561, heur = -3.0, depth = 3
iter = 358, queue = 1560, heur = -3.0, depth = 3
iter = 359, queue = 1567, heur = -3.0, depth = 3
iter = 360, queue = 1569, heur = -3.0, depth = 3
iter = 361, queue = 1576, heur = -3.0, depth = 3
iter = 362, queue = 1583, heur = -3.0, depth = 3
iter = 363, queue = 1584, heur = -3.0, depth = 3
iter = 364, queue = 1587, heur = -3.0, depth = 3
iter = 365, queue = 1589, heur = -3.0, depth = 3
iter = 366, queue = 1596, heur = -3.0, depth = 3
iter = 367, queue = 1598, heur = -3.0, depth = 3
iter = 368, queue = 1603, heur = -3.0, depth = 3
iter = 369, queue = 1610, heur = -3.0, depth = 3
iter = 370, queue = 1615, heur = -3.0, depth = 3
iter = 371, queue = 1617, heur = -3.0, depth = 3
iter = 372, queue = 1619, heur = -3.0, depth = 3
iter = 373, queue = 1623, heur = -3.0, depth = 3
iter = 374, queue = 1627, heur = -3.0, depth = 3
iter = 375, queue = 1633, heur = -3.0, depth = 3
iter = 376, queue = 1635, heur = -3.0, depth = 3
iter = 377, queue = 1641, heur = -3.0, depth = 3
iter = 378, queue = 1648, heur = -3.0, depth = 3
iter = 379, queue = 1652, heur = -3.0, depth = 4
iter = 380, queue = 1652, heur = -3.0, depth = 3
iter = 381, queue = 1653, heur = -3.0, depth = 3
iter = 382, queue = 1656, heur = -3.0, depth = 3
iter = 383, queue = 1659, heur = -3.0, depth = 4
iter = 384, queue = 1661, heur = -3.0, depth = 4
iter = 385, queue = 1663, heur = -3.0, depth = 3
iter = 386, queue = 1663, heur = -3.0, depth = 3
iter = 387, queue = 1665, heur = -3.0, depth = 4
iter = 388, queue = 1670, heur = -3.0, depth = 3
iter = 389, queue = 1675, heur = -3.0, depth = 3
iter = 390, queue = 1678, heur = -3.0, depth = 3
iter = 391, queue = 1683, heur = -3.0, depth = 3
iter = 392, queue = 1687, heur = -3.0, depth = 4
iter = 393, queue = 1692, heur = -3.0, depth = 3
iter = 394, queue = 1694, heur = -3.0, depth = 3
iter = 395, queue = 1697, heur = -3.0, depth = 3
iter = 396, queue = 1703, heur = -3.0, depth = 3
iter = 397, queue = 1705, heur = -3.0, depth = 3
iter = 398, queue = 1706, heur = -3.0, depth = 3
iter = 399, queue = 1708, heur = -3.0, depth = 3
iter = 400, queue = 1711, heur = -3.0, depth = 3
iter = 401, queue = 1712, heur = -3.0, depth = 3
iter = 402, queue = 1720, heur = -3.0, depth = 3
iter = 403, queue = 1719, heur = -3.0, depth = 3
iter = 404, queue = 1720, heur = -3.0, depth = 3
iter = 405, queue = 1722, heur = -3.0, depth = 3
iter = 406, queue = 1723, heur = -3.0, depth = 3
iter = 407, queue = 1728, heur = -3.0, depth = 3
iter = 408, queue = 1735, heur = -3.0, depth = 3
iter = 409, queue = 1737, heur = -3.0, depth = 3
iter = 410, queue = 1742, heur = -3.0, depth = 3
iter = 411, queue = 1747, heur = -3.0, depth = 3
iter = 412, queue = 1748, heur = -3.0, depth = 3
```

```
iter = 413, queue = 1753, heur = -3.0, depth = 3
iter = 414, queue = 1756, heur = -3.0, depth = 3
iter = 415, queue = 1759, heur = -3.0, depth = 3
iter = 416, queue = 1762, heur = -3.0, depth = 3
iter = 417, queue = 1763, heur = -3.0, depth = 3
iter = 418, queue = 1764, heur = -3.0, depth = 3
iter = 419, queue = 1767, heur = -3.0, depth = 4
iter = 420, queue = 1771, heur = -3.0, depth = 3
iter = 421, queue = 1776, heur = -3.0, depth = 5
iter = 422, queue = 1778, heur = -3.0, depth = 3
iter = 423, queue = 1779, heur = -3.0, depth = 3
iter = 424, queue = 1782, heur = -3.0, depth = 3
iter = 425, queue = 1785, heur = -3.0, depth = 3
iter = 426, queue = 1792, heur = -3.0, depth = 3
iter = 427, queue = 1793, heur = -3.0, depth = 3
iter = 428, queue = 1796, heur = -3.0, depth = 3
iter = 429, queue = 1800, heur = -3.0, depth = 4
iter = 430, queue = 1802, heur = -3.0, depth = 3
iter = 431, queue = 1801, heur = -3.0, depth = 3
iter = 432, queue = 1800, heur = -3.0, depth = 3
iter = 433, queue = 1800, heur = -3.0, depth = 3
iter = 434, queue = 1802, heur = -3.0, depth = 3
iter = 435, queue = 1806, heur = -3.0, depth = 3
iter = 436, queue = 1807, heur = -3.0, depth = 3
iter = 437, queue = 1813, heur = -3.0, depth = 3
iter = 438, queue = 1815, heur = -3.0, depth = 4
iter = 439, queue = 1820, heur = -3.0, depth = 3
iter = 440, queue = 1822, heur = -3.0, depth = 5
iter = 441, queue = 1824, heur = -3.0, depth = 3
iter = 442, queue = 1829, heur = -3.0, depth = 4
iter = 443, queue = 1831, heur = -3.0, depth = 3
iter = 444, queue = 1833, heur = -3.0, depth = 3
iter = 445, queue = 1838, heur = -3.0, depth = 3
iter = 446, queue = 1842, heur = -3.0, depth = 3
iter = 447, queue = 1847, heur = -3.0, depth = 3
iter = 448, queue = 1846, heur = -3.0, depth = 3
iter = 449, queue = 1846, heur = -3.0, depth = 3
iter = 450, queue = 1847, heur = -3.0, depth = 3
iter = 451, queue = 1850, heur = -3.0, depth = 3
iter = 452, queue = 1853, heur = -3.0, depth = 3
iter = 453, queue = 1856, heur = -3.0, depth = 3
iter = 454, queue = 1861, heur = -3.0, depth = 3
iter = 455, queue = 1866, heur = -3.0, depth = 3
iter = 456, queue = 1868, heur = -3.0, depth = 3
iter = 457, queue = 1869, heur = -3.0, depth = 4
iter = 458, queue = 1873, heur = -3.0, depth = 3
iter = 459, queue = 1875, heur = -3.0, depth = 3
iter = 460, queue = 1874, heur = -3.0, depth = 3
iter = 461, queue = 1876, heur = -3.0, depth = 3
iter = 462, queue = 1879, heur = -3.0, depth = 3
iter = 463, queue = 1884, heur = -3.0, depth = 3
iter = 464, queue = 1886, heur = -3.0, depth = 3
iter = 465, queue = 1887, heur = -3.0, depth = 3
iter = 466, queue = 1887, heur = -3.0, depth = 4
iter = 467, queue = 1886, heur = -3.0, depth = 3
iter = 468, queue = 1887, heur = -3.0, depth = 3
iter = 469, queue = 1892, heur = -3.0, depth = 3
iter = 470, queue = 1891, heur = -3.0, depth = 3
iter = 471, queue = 1897, heur = -3.0, depth = 4
```

```
iter = 472, queue = 1898, heur = -3.0, depth = 3
iter = 473, queue = 1905, heur = -3.0, depth = 3
iter = 474, queue = 1906, heur = -3.0, depth = 3
iter = 475, queue = 1905, heur = -3.0, depth = 3
iter = 476, queue = 1910, heur = -3.0, depth = 3
iter = 477, queue = 1912, heur = -3.0, depth = 3
iter = 478, queue = 1920, heur = -3.0, depth = 3
iter = 479, queue = 1922, heur = -3.0, depth = 3
iter = 480, queue = 1926, heur = -3.0, depth = 3
iter = 481, queue = 1932, heur = -3.0, depth = 3
iter = 482, queue = 1935, heur = -3.0, depth = 3
iter = 483, queue = 1940, heur = -3.0, depth = 3
iter = 484, queue = 1942, heur = -3.0, depth = 3
iter = 485, queue = 1948, heur = -3.0, depth = 3
iter = 486, queue = 1952, heur = -3.0, depth = 3
iter = 487, queue = 1953, heur = -3.0, depth = 3
iter = 488, queue = 1958, heur = -3.0, depth = 3
iter = 489, queue = 1960, heur = -3.0, depth = 3
iter = 490, queue = 1961, heur = -3.0, depth = 3
iter = 491, queue = 1962, heur = -3.0, depth = 4
iter = 492, queue = 1965, heur = -3.0, depth = 3
iter = 493, queue = 1969, heur = -3.0, depth = 3
iter = 494, queue = 1972, heur = -3.0, depth = 3
iter = 495, queue = 1974, heur = -3.0, depth = 4
iter = 496, queue = 1976, heur = -3.0, depth = 3
iter = 497, queue = 1982, heur = -3.0, depth = 3
iter = 498, queue = 1983, heur = -3.0, depth = 3
iter = 499, queue = 1988, heur = -3.0, depth = 3
iter = 500, queue = 1990, heur = -3.0, depth = 3
iter = 501, queue = 1989, heur = -3.0, depth = 3
iter = 502, queue = 1997, heur = -3.0, depth = 3
iter = 503, queue = 1998, heur = -3.0, depth = 3
iter = 504, queue = 1998, heur = -3.0, depth = 4
iter = 505, queue = 2003, heur = -3.0, depth = 3
iter = 506, queue = 2007, heur = -3.0, depth = 5
iter = 507, queue = 2011, heur = -3.0, depth = 3
iter = 508, queue = 2013, heur = -3.0, depth = 3
iter = 509, queue = 2016, heur = -3.0, depth = 3
iter = 510, queue = 2018, heur = -3.0, depth = 4
iter = 511, queue = 2020, heur = -3.0, depth = 3
iter = 512, queue = 2021, heur = -3.0, depth = 3
iter = 513, queue = 2020, heur = -3.0, depth = 3
iter = 514, queue = 2023, heur = -3.0, depth = 3
iter = 515, queue = 2028, heur = -3.0, depth = 3
iter = 516, queue = 2031, heur = -3.0, depth = 3
iter = 517, queue = 2032, heur = -3.0, depth = 3
iter = 518, queue = 2038, heur = -3.0, depth = 3
iter = 519, queue = 2041, heur = -3.0, depth = 3
iter = 520, queue = 2045, heur = -3.0, depth = 3
iter = 521, queue = 2046, heur = -3.0, depth = 3
iter = 522, queue = 2047, heur = -3.0, depth = 3
iter = 523, queue = 2048, heur = -3.0, depth = 3
iter = 524, queue = 2050, heur = -3.0, depth = 3
iter = 525, queue = 2052, heur = -3.0, depth = 3
iter = 526, queue = 2053, heur = -3.0, depth = 3
iter = 527, queue = 2054, heur = -3.0, depth = 3
iter = 528, queue = 2058, heur = -3.0, depth = 3
iter = 529, queue = 2060, heur = -3.0, depth = 3
iter = 530, queue = 2063, heur = -3.0, depth = 3
```

```
iter = 531, queue = 2064, heur = -3.0, depth = 3
iter = 532, queue = 2067, heur = -3.0, depth = 3
iter = 533, queue = 2071, heur = -3.0, depth = 3
iter = 534, queue = 2077, heur = -3.0, depth = 4
iter = 535, queue = 2083, heur = -3.0, depth = 3
iter = 536, queue = 2084, heur = -3.0, depth = 3
iter = 537, queue = 2085, heur = -3.0, depth = 3
iter = 538, queue = 2093, heur = -3.0, depth = 4
iter = 539, queue = 2092, heur = -3.0, depth = 4
iter = 540, queue = 2092, heur = -3.0, depth = 3
iter = 541, queue = 2094, heur = -3.0, depth = 3
iter = 542, queue = 2099, heur = -3.0, depth = 3
iter = 543, queue = 2105, heur = -3.0, depth = 4
iter = 544, queue = 2105, heur = -3.0, depth = 3
iter = 545, queue = 2104, heur = -3.0, depth = 3
iter = 546, queue = 2109, heur = -3.0, depth = 3
iter = 547, queue = 2112, heur = -3.0, depth = 3
iter = 548, queue = 2114, heur = -3.0, depth = 3
iter = 549, queue = 2117, heur = -3.0, depth = 3
iter = 550, queue = 2118, heur = -3.0, depth = 3
iter = 551, queue = 2121, heur = -3.0, depth = 3
iter = 552, queue = 2128, heur = -3.0, depth = 3
iter = 553, queue = 2130, heur = -3.0, depth = 3
iter = 554, queue = 2129, heur = -3.0, depth = 3
iter = 555, queue = 2132, heur = -3.0, depth = 3
iter = 556, queue = 2134, heur = -3.0, depth = 3
iter = 557, queue = 2135, heur = -3.0, depth = 3
iter = 558, queue = 2134, heur = -3.0, depth = 3
iter = 559, queue = 2135, heur = -3.0, depth = 3
iter = 560, queue = 2139, heur = -3.0, depth = 3
iter = 561, queue = 2144, heur = -3.0, depth = 3
iter = 562, queue = 2145, heur = -3.0, depth = 3
iter = 563, queue = 2148, heur = -3.0, depth = 3
iter = 564, queue = 2151, heur = -3.0, depth = 4
iter = 565, queue = 2153, heur = -3.0, depth = 4
iter = 566, queue = 2152, heur = -3.0, depth = 3
iter = 567, queue = 2155, heur = -3.0, depth = 3
iter = 568, queue = 2160, heur = -3.0, depth = 3
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
iter = 583, queue = 2226, heur = -3.0, depth = 3
iter = 584, queue = 2230, heur = -3.0, depth = 3
iter = 585, queue = 2235, heur = -3.0, depth = 10
iter = 586, queue = 2239, heur = -3.0, depth = 4
iter = 587, queue = 2241, heur = -3.0, depth = 3
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']
['I', 'F', 'D', 'C']
                     STATE 2
['G', 'H', 'E']
['A', 'B']
['I', 'F', 'D', 'C']
                     STATE 3
['G', 'H', 'E', 'B']
['A']
['I', 'F', 'D', 'C']
                     STATE 4
['A']
['G', 'H', 'E', 'B']
['I', 'F', 'D', 'C']
                     STATE 5
['A', 'B']
['G', 'H', 'E']
['I', 'F', 'D', 'C']
                     STATE 6
['A', 'B', 'C']
['G', 'H', 'E']
['I', 'F', 'D']
                     STATE 7
['A', 'B', 'C', 'D']
['G', 'H', 'E']
\prod
['I', 'F']
                     STATE 8
['A', 'B', 'C', 'D', 'E']
['G', 'H']
```

```
[]
['I', 'F']
                      STATE 9
['A', 'B', 'C', 'D', 'E', 'F']
['G', 'H']
[]
['I']
                      STATE 10_
['A', 'B', 'C', 'D', 'E', 'F']
['G']
['H']
['I']
                     _STATE 11__
['A', 'B', 'C', 'D', 'E', 'F', 'G']
['H']
['I']
                      STATE 12
['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H']
[]
['I']
                      STATE 13
['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'I']
[]
Iterations: 610
Path Length: 13
Maximum queue size: 2261
Number of states visited: 2870
```

Time taken: 0.206241130829 seconds