

## 8 Queens Project - Search Traversal

- Mid-Execution:

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0000) (1700000000) (1000000000) (1000000000) (0000000000) ((1710000000) (1700000000) (1000000000) (0000000000)) ((1680000000) (1600000000) (1000000000) (0000000000)) ((1670000000) (1600000000) (1000000000) (0000000000)) ((1650000000) (1600000000) (1000000000) (0000000000)) ((1640000000) (1600000000) (1000000000) (0000000000)) ((1630000000) (1600000000) (1000000000) (0000000000)) ((1620000000) (1600000000) (1000000000) (0000000000)) ((1570000000) (1500000000) (1000000000) (0000000000)) ((1560000000) (1500000000) (1000000000) (0000000000)) ((1550000000) (1500000000) (1000000000) (0000000000)) ((1540000000) (1500000000) (1000000000) (0000000000)) ((1520000000) (1500000000) (1000000000) (0000000000)) ((1500000000) (1500000000) (1000000000) (0000000000)) ((1480000000) (1400000000) (1000000000) (0000000000)) ((1470000000) (1400000000) (1000000000) (0000000000)) ((1460000000) (1400000000) (1000000000) (0000000000)) ((1450000000) (1400000000) (1000000000) (0000000000)) ((1440000000) (1400000000) (1000000000) (0000000000)) ((1430000000) (1400000000) (1000000000) (0000000000)) ((1420000000) (1400000000) (1000000000) (0000000000)) ((1400000000) (1400000000) (1000000000) (0000000000)) ((1380000000) (1300000000) (1000000000) (0000000000)) ((1370000000) (1300000000) (1000000000) (0000000000)) ((1360000000) (1300000000) (1000000000) (0000000000)) ((1350000000) (1300000000) (1000000000) (0000000000)) ((1340000000) (1300000000) (1000000000) (0000000000)) ((1330000000) (1300000000) (1000000000) (0000000000)) ((1320000000) (1300000000) (1000000000) (0000000000)) ((1310000000) (1300000000) (1000000000) (0000000000)))
reject path - Queen's conflict((00000000) (70000000) (72000000) (72400000))

Current set of visited nodes: ((13000000) (14000000) (15000000) (16000000) (17000000) (18000000) (24000000) (25000000) (26000000) (27000000) (28000000) (31000000) (35000000) (36000000) (37000000) (38000000) (41000000) (42000000) (46000000) (47000000) (48000000) (51000000) (52000000) (53000000) (57000000) (58000000) (61000000) (62000000) (63000000) (64000000) (68000000) (71000000) (72000000) (73000000) (74000000) (75000000) (81000000) (82000000) (83000000) (84000000) (85000000) (86000000) (10000000) (20000000) (30000000) (30000000) (40000000) (50000000) (60000000) (70000000) (80000000) (00000000)))
Current Path-container: (((72300000) (72000000) (70000000) (00000000) (00000000)) ((72200000) (72000000) (70000000) (00000000) (00000000)) ((72100000) (72000000) (70000000) (00000000) (00000000)) ((71700000) (71000000) (70000000) (00000000) (00000000)) ((71600000) (71000000) (70000000) (00000000) (00000000)) ((71500000) (71000000) (70000000) (00000000) (00000000)) ((71400000) (71000000) (70000000) (00000000) (00000000)) ((71300000) (71000000) (70000000) (00000000) (00000000))

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- Completion of DFS search: (1 5 8 6 3 7 2 4) .. BFS search works as well.

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289
290 ;Kollen Gruizenga
291 ;specify what type of search to call
292 (8-queen-dfs ss)
293
294
295

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8 6 3 8 0 0) (1 5 8 6 3 0 0 0) (1 5 8 6 0 0 0 0) (1 5 8 0 0 0 0 0) (1 5 0 0 0 0 0 0) (1 0 0 0 0 0 0 0) (0 0 0 0 0 0 0 0)) ((1 5 8 6 4 0 0 0) (1
5 8 6 0 0 0 0) (1 5 8 0 0 0 0 0) (1 5 0 0 0 0 0 0) (1 0 0 0 0 0 0 0) (0 0 0 0 0 0 0 0)) ((1 5 8 6 5 0 0 0) (1 5 8 6 0 0 0 0) (1 5 8 0 0 0 0 0) (1
1 5 0 0 0 0 0 0) (1 0 0 0 0 0 0 0) (0 0 0 0 0 0 0 0)) ((1 5 8 6 6 0 0 0) (1 5 8 6 0 0 0 0) (1 5 8 0 0 0 0 0) (1 5 0 0 0 0 0 0) (1 0 0 0 0 0 0 0)
0) (0 0 0 0 0 0 0 0)) ((1 5 8 6 7 0 0 0) (1 5 8 6 0 0 0 0) (1 5 8 0 0 0 0 0) (1 5 0 0 0 0 0 0) (1 0 0 0 0 0 0 0) (0 0 0 0 0 0 0 0)) ((1 5 8 6 8
0 0 0) (1 5 8 6 0 0 0 0) (1 5 8 0 0 0 0 0) (1 5 0 0 0 0 0 0) (1 0 0 0 0 0 0 0) (0 0 0 0 0 0 0 0)) ((1 5 8 7 0 0 0 0) (1 5 8 0 0 0 0 0) (1 5 8 0 0 0 0 0) (1 5 0
0 0 0) (1 0 0 0 0 0 0 0) (0 0 0 0 0 0 0 0)) ((1 5 8 8 0 0 0 0) (1 5 8 0 0 0 0 0) (1 5 0 0 0 0 0 0) (1 0 0 0 0 0 0 0) (0 0 0 0 0 0 0 0)) ((1 6
0 0 0 0 0) (1 0 0 0 0 0 0 0) (0 0 0 0 0 0 0 0)) ((1 7 0 0 0 0 0 0) (1 0 0 0 0 0 0 0) (0 0 0 0 0 0 0 0)) ((1 8 0 0 0 0 0 0) (1 0 0 0 0 0 0 0)
0) (0 0 0 0 0 0 0 0)) ((2 0 0 0 0 0 0 0) (0 0 0 0 0 0 0 0)) ((3 0 0 0 0 0 0 0) (0 0 0 0 0 0 0 0)) ((4 0 0 0 0 0 0 0) (0 0 0 0 0 0 0 0)) ((5 0 0 0
0 0 0) (0 0 0 0 0 0 0 0)) ((6 0 0 0 0 0 0 0) (0 0 0 0 0 0 0 0)) ((7 0 0 0 0 0 0 0) (0 0 0 0 0 0 0 0)) ((8 0 0 0 0 0 0 0) (0 0 0 0 0 0 0 0)))
876 nodes examined
((0 0 0 0 0 0 0 0) (1 0 0 0 0 0 0 0) (1 5 0 0 0 0 0 0) (1 5 8 0 0 0 0 0) (1 5 8 6 0 0 0 0) (1 5 8 6 3 0 0 0) (1 5 8 6 3 7 0 0) (1 5 8 6 3 7 2 0)
(1 5 8 6 3 7 2 4))
>

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Determine language from source ▾

290:17

656.20 MB

s-8	1	2	3	4	5	6	7	8
1	Q							
2							Q	
3					Q			
4								Q
5		Q						
6				Q				
7						Q		
8			Q					