

AStar Pathfinding Report

Results Summary:

Path Found: Yes

Total Time: 14.7612 seconds

Nodes Explored: 644

Path Length: 49

Algorithm Steps:

- Step 1: A* algorithm started (Time: 0.00s, Nodes: 0)
- Step 2: Start position: (3, 3) (Time: 0.00s, Nodes: 0)
- Step 3: Goal position: (25, 30) (Time: 0.00s, Nodes: 0)
- Step 4: Initial heuristic score: 49 (Time: 0.00s, Nodes: 0)
- Step 5: Visited node at (3, 3) (Time: 0.00s, Nodes: 1)
- Step 6: Exploring 4 neighbors at (3, 3) (Time: 0.00s, Nodes: 1)
- Step 7: Added to frontier at (3, 4) (Time: 0.00s, Nodes: 1)
- Step 8: Added to frontier at (4, 3) (Time: 0.00s, Nodes: 1)
- Step 9: Added to frontier at (3, 2) (Time: 0.00s, Nodes: 1)
- Step 10: Added to frontier at (2, 3) (Time: 0.00s, Nodes: 1)
- Step 11: Visited node at (3, 4) (Time: 0.02s, Nodes: 2)
- Step 12: Exploring 4 neighbors at (3, 4) (Time: 0.02s, Nodes: 2)
- Step 13: Added to frontier at (3, 5) (Time: 0.02s, Nodes: 2)
- Step 14: Added to frontier at (4, 4) (Time: 0.02s, Nodes: 2)
- Step 15: Added to frontier at (2, 4) (Time: 0.02s, Nodes: 2)
- Step 16: Visited node at (3, 5) (Time: 0.04s, Nodes: 3)
- Step 17: Exploring 4 neighbors at (3, 5) (Time: 0.04s, Nodes: 3)
- Step 18: Added to frontier at (3, 6) (Time: 0.04s, Nodes: 3)
- Step 19: Added to frontier at (4, 5) (Time: 0.04s, Nodes: 3)
- Step 20: Added to frontier at (2, 5) (Time: 0.04s, Nodes: 3)
- Step 21: Visited node at (3, 6) (Time: 0.06s, Nodes: 4)
- Step 22: Exploring 4 neighbors at (3, 6) (Time: 0.06s, Nodes: 4)

Step 23: Added to frontier at (3, 7) (Time: 0.06s, Nodes: 4)
Step 24: Added to frontier at (4, 6) (Time: 0.06s, Nodes: 4)
Step 25: Added to frontier at (2, 6) (Time: 0.06s, Nodes: 4)
Step 26: Visited node at (3, 7) (Time: 0.08s, Nodes: 5)
Step 27: Exploring 4 neighbors at (3, 7) (Time: 0.08s, Nodes: 5)
Step 28: Added to frontier at (3, 8) (Time: 0.08s, Nodes: 5)
Step 29: Added to frontier at (4, 7) (Time: 0.08s, Nodes: 5)
Step 30: Added to frontier at (2, 7) (Time: 0.08s, Nodes: 5)
Step 31: Visited node at (3, 8) (Time: 0.10s, Nodes: 6)
Step 32: Exploring 4 neighbors at (3, 8) (Time: 0.10s, Nodes: 6)
Step 33: Added to frontier at (3, 9) (Time: 0.10s, Nodes: 6)
Step 34: Added to frontier at (4, 8) (Time: 0.10s, Nodes: 6)
Step 35: Added to frontier at (2, 8) (Time: 0.10s, Nodes: 6)
Step 36: Visited node at (3, 9) (Time: 0.13s, Nodes: 7)
Step 37: Exploring 4 neighbors at (3, 9) (Time: 0.13s, Nodes: 7)
Step 38: Added to frontier at (3, 10) (Time: 0.13s, Nodes: 7)
Step 39: Added to frontier at (4, 9) (Time: 0.13s, Nodes: 7)
Step 40: Added to frontier at (2, 9) (Time: 0.13s, Nodes: 7)
Step 41: Visited node at (3, 10) (Time: 0.15s, Nodes: 8)
Step 42: Exploring 4 neighbors at (3, 10) (Time: 0.15s, Nodes: 8)
Step 43: Added to frontier at (3, 11) (Time: 0.15s, Nodes: 8)
Step 44: Added to frontier at (4, 10) (Time: 0.15s, Nodes: 8)
Step 45: Added to frontier at (2, 10) (Time: 0.15s, Nodes: 8)
Step 46: Visited node at (3, 11) (Time: 0.17s, Nodes: 9)
Step 47: Exploring 4 neighbors at (3, 11) (Time: 0.17s, Nodes: 9)
Step 48: Added to frontier at (3, 12) (Time: 0.17s, Nodes: 9)
Step 49: Added to frontier at (4, 11) (Time: 0.17s, Nodes: 9)
Step 50: Added to frontier at (2, 11) (Time: 0.17s, Nodes: 9)
... and 1986 more steps

Grid Information:

Grid Size: 35 x 40

Start Position: (3, 3)

Goal Position: (25, 30)