CODE: Adding a Start and End to the Board

Adding a Start and End to the Board



Excellent work! Your project is essentially complete, and the A* search algorithm is fully functional. To wrap things up, there is one modification that can be made to the project to make the printout slightly clearer. At this point, your program should print the following:

This is fantastic, but it isn't clear where the beginning and end of the path are. In this exercise, you will add a for the beginning of the path, and a for the end.

To Complete This Exercise:

- 1. Add a kStart and kFinish to the State enum.
- 2. Set the grid cell to kStart for the initial coordinates and kFinish for the goal coordinates. This will happen in the Search function.
- 3. In CellString, add cases to return "@ " for kStart and " " for kFinish.

main.cpp 1 ▼ #include <algorithm> // for sort / > home > workspace 2 #include <fstream> 3 #include <iostream> **■** 1.board 4 #include <sstream> 5 #include <string> 🗉 main.cpp 6 #include <vector> **■** solution.cpp 7 using std::cout; 8 using std∷ifstream; **囯** test.cpp g using std::istringstream; 10 using std::sort; 11 using std::string; using std::vector; + BASH root@4c1e850b9655:/home/workspace# ↑ Menu 🛂 Expand

11. CODE: Adding Nodes to the Ope...12. CODE: Initialize the Open Vector

Lesson 3:

A* Search

2. Motion Planning

5. Coding the Shortest Path Algorithm

☑ 3. Maze

⊻ 4. Maze 2

☑ 7. Lesson Code Structure

8. CODE: Starting A* Search

9. CODE: Writing the A* Heuristic

10. Pass by Reference in C++

SEARCH

RESOURCES

CONCEPTS

☑ 13. CODE: Create a Comparison Fun...

☑ 14. CODE: Write a While Loop for the...

15. CODE: Check for Valid Neighbors16. Constants

☑ 17. CODE: Expand the A* Search to ...

✓ 18. Arrays

19. CODE: Adding a Start and End t...

☑ 20. Congratulations!!

21. How to Become More Proficient ...

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