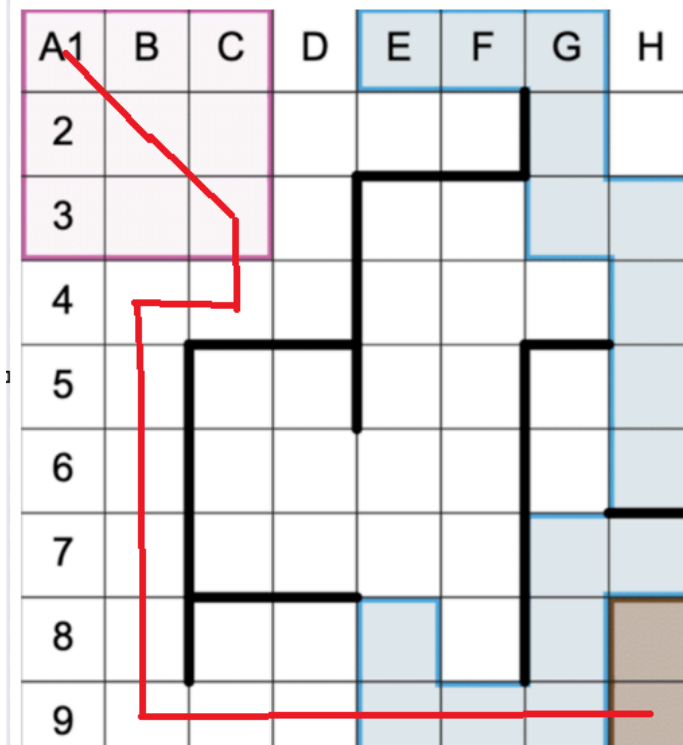


```
gbaks@gb_laptop MINGW64 ~/Downloads/cis365/assignments/assignment3 (main)
$ python assignment3.py
The path is:
a1 --> b2 --> c3 --> c4 --> b5 --> b6 --> b7 --> b8 --> c9 --> d9 --> e9 --> f9 --> g9 --> h9 --> Goal reached
```



**Can the chosen algorithm determine a path from A1 to H 9 ? Why or Why not? What sort of changes would you have to make to your algorithm in order for it to generate a path to the goal node ( H 9 )?**

We chose A\*, which can generate a path from A1 to H9. It never overestimates the true cost. The algorithm we referenced took in a grid, so we modified it to be a graph with nodes and adjusted the heuristic function after our research.