

## Exercise 1

- 1e. The solution found by the algorithm is slightly different than the algorithm found by hand, because the algorithm has different priorities than we did. However, we both expanded all of the nodes that were 1 action away before moving on, so our solutions were similar, just in a slightly different order.
2. The algorithm found one more state than when we ran BFS by hand, because of the reason stated above.
3. There is no difference between the states in the frontier of the algorithm and running it by hand.

## Exercise 2

DFS generates the solution with 9 states (solution length 8). In contrast, BFS generates the solution with 15 states. Therefore, DFS is more efficient in this case. Both searches reach the same solution path, and it makes sense that DFS is more efficient because the maze is generated in a way that makes exploring depth more favorable.