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Homework #2

Problem 2:

**(3,5), (3,6), (3,4), (2,4), (1,4), (1,3), (1,2), (1,1), (2,1), (3,3), (4,5), (5,5)**

Problem 4:

**(3,5), (4,5), (3,4), (3,6), (5,5), (3,3), (2,4), (6,5), (5,4), (1,4), (7,5), (5,3)**

The difference in the two algorithms is that the maze stack searches in a depth-first order, while the maze queue searches in a breadth-first order. In the stack, we search down a path until we hit a dead end, then we backtrack to the closest intersection that still has directions that have not been traveled in, and then search along that unsearched path. In the queue, we visit cells starting at 1 position away, and then 2, and then so on, until we hit a wall or find a path that connects the beginning to the end.