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CS32 Homework 2

2. The first 12 coordinates popped off the stack are as follows:

3, 5

3, 6

3, 4

2, 4

1, 4

1, 3

1, 2

1, 1

2, 1

3, 3

4, 5

5, 5

4. The first 12 coordinates popped off the queue are as follows:

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 queue version of the algorithm works by enqueueing all the possible positions to move to and then repeats it again with the last added position, while the stack implementation works by following one path until it leads to a dead end, and if it does, it then returns to the last position where there was more than one place to move to.