First elements popped off of the stack:

3 , 5

3 , 6

3 , 4

2 , 4

1 , 4

1 , 3

1 , 2

1 , 1

2 , 1

3 , 3

4 , 5

5 , 5

First elements popped off of the queue:

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 uses a breadth first search, and the stack uses a depth first search. The breadth first will likely find the solution faster than the depth first search, however depth first will always find the most efficient solution. Depth first search will continue down the end of each path until it either finds the end or cannot go farther down anymore, while breadth first search will radially expand from the starting point.