2.

4, 3

3, 3

5, 3

5, 2

5, 1

6, 1

7, 1

8, 1

8, 2

6, 3

4, 4

4, 5

4.

4, 3

4, 4

5, 3

3, 3

4, 5

6, 3

5, 2

4, 6

5, 5

5, 1

4, 7

6, 5

The two algorithms differ in the order in which coordinates get popped from queue. Queue pops coordinates starting from the oldest coordinate inserted into the queue first whereas stack explores the last coordinate inserted into the stack. Whenever the function reaches the end of the while loop (while the stack/queue is not empty), stack implementation always gets and removes the coordinate last inserted into the stack and determine whether East/South/West/North of that coordinate is available while the queue implementation always gets and removes the coordinate inserted earliest on into the queue and determine whether East/South/West/North of that coordinate is available.