Edward Chu 504772148

Homework 2

2. First 12 coordinates visited in stack:

(6,4) => (6,3) => (6,5) => (7,5) => (8,5) => (8,6) => (8,7) => (8,8) => (7,8) => (6,6) => (5,4) => (4,4)

4. First 12 coordinates visited in queue

(6,4) => (5,4) => (6,5) => (6,3) => (4,4) => (6,6) => (7,5) => (3,4) => (4,5) => (8,5) => (2,4) => (4,6)

In the stack version, the algorithm uses a depth-first search method, where each branch is explored as far as possible before switching to the next branch in possible routes.

In the queue version, the algorithm uses a breadth-first search method, where squares are explored based on their proximity to the starting point, where the closer ones gets explored first.