Problem 2:

Maze Stack

1. (6, 4)
2. (6, 3)
3. (6, 5)
4. (7, 5)
5. (8, 5)
6. (8, 6)
7. (8, 7)
8. (8, 8)
9. (7, 8)
10. (6, 6)
11. (5, 4)
12. (4, 4)

Problem 4:

Maze Queue

1. (6, 4)
2. (5, 4)
3. (6, 5)
4. (6, 3)
5. (4, 4)
6. (6, 6)
7. (7, 5)
8. (3, 4)
9. (4, 5)
10. (8, 5)
11. (2, 4)
12. (4, 6)

The two algorithms differ from each other because while stacks pop off the top (LIFO), queues pop off the front (FIFO). In the while loop, they will both visit the cells in the same order: north, east, south, and west. However, stacks pop the top; and therefore, will visit the cells in reverse order (west, south, east, north) than that of queues, which visit the cells (north, east, south, west). In other words, stacks will visit the newest cells that were pushed, while queues will visit the oldest cells that were pushed.