2. The first 12 coordinates popped off are (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 are (3,4), (3,6), (5,5), (3,3), (2,4), (6,5), (5,4), (1, 4), (7,5), (5,3), (1,3), (8,5)

The 12 coordinates output by stacks and queues are different because each deploy a different algorithm to solving the maze. The stack uses a depth first searching algorithm, meaning it follows a potential path until it reaches a dead end, and then it tries again. The queue uses a breadth-first search, so it expands its search in concentric circles until it finds its goal.