**2. First 12 (r,c) coordinates popped (for the stack) are:**

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)

**4. First 12 (r, c) coordinates popped (for the queue) are:**

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 in that a stack follows a path until the end while a queue traces through all closest steps first (depth vs breadth search). A queue searches in “concentric circles”.