**Homework 2 Report**

**2.**

**The coordinate is (4, 3), pop 1**

**The coordinate is (3, 3), pop 2**

**The coordinate is (5, 3), pop 3**

**The coordinate is (5, 2), pop 4**

**The coordinate is (5, 1), pop 5**

**The coordinate is (6, 1), pop 6**

**The coordinate is (7, 1), pop 7**

**The coordinate is (8, 1), pop 8**

**The coordinate is (8, 2), pop 9**

**The coordinate is (6, 3), pop 10**

**The coordinate is (4, 4), pop 11**

**The coordinate is (4, 5), pop 12**

**4.**

**The coordinate is (4, 3), pop 1**

**The coordinate is (4, 4), pop 2**

**The coordinate is (5, 3), pop 3**

**The coordinate is (3, 3), pop 4**

**The coordinate is (4, 5), pop 5**

**The coordinate is (6, 3), pop 6**

**The coordinate is (5, 2), pop 7**

**The coordinate is (4, 6), pop 8**

**The coordinate is (5, 5), pop 9**

**The coordinate is (5, 1), pop 10**

**The coordinate is (4, 7), pop 11**

**The coordinate is (6, 5), pop 12**

**How do the outputs differ?**

**In looking at the two different outputs, we observe the stack (last in first out) and queue (first in first out) observation of directions. The stack pushes in the order of east, south, west, north (same as queue). However, stack will look at the points (pop) in the opposite order, while the queue will look at the points in the same order. However, there are discrepancies between the two outputs, but they all check the same coordinates and both are deemed solvable in the end!**