Report

2.**The coordinates popped were (6, 4)**

**The coordinates popped were (6, 3)**

**The coordinates popped were (6, 5)**

**The coordinates popped were (7, 5)**

**The coordinates popped were (8, 5)**

**The coordinates popped were (8, 6)**

**The coordinates popped were (8, 7)**

**The coordinates popped were (8, 8)**

**The coordinates popped were (7, 8)**

**The coordinates popped were (6, 6)**

**The coordinates popped were (5, 4)**

**The coordinates popped were (4, 4)**

4. **The coordinates popped were (6, 4)**

**The coordinates popped were (5, 4)**

**The coordinates popped were (6, 5)**

**The coordinates popped were (6, 3)**

**The coordinates popped were (4, 4)**

**The coordinates popped were (6, 6)**

**The coordinates popped were (7, 5)**

**The coordinates popped were (3, 4)**

**The coordinates popped were (4, 5)**

**The coordinates popped were (8, 5)**

**The coordinates popped were (2, 4)**

**The coordinates popped were (4, 6)**

**The two operate differently as the stack works by using the most recent coordinate found that was open as the next coordinate to evaluate(LIFO), whereas the queue uses the last open coordinate that was found as the next coordinate to evaluate(FIFO). Therefore the queue checks by operating in a circle outwards whereas the stack works by checking down a certain route and going back to the most recent open and undiscovered point to check for a new route.**

**The stack will work by checking NESW and then continuing in any of the open directions. The queue however will check NESW and then NESW for each of the open coordinates found and continue outwards radially.**