Calvin Liu

CS 32 Hwk 2

2. The first 11 coordinates to be popped off will be:

**(6,4)**

**(6,5)**

**(6,6)**

**(7,5)**

**(8,5)**

**(8,6)**

**(8,7)**

**(8,8)**

**(7,8)**

**(6,8)**

**(5,4)**

4. The first 11 coordinates to be popped off will be:

**(6,4)**

**(5,4)**

**(6,5)**

**(4,4)**

**(7,5)**

**(6,6)**

**(3,4)**

**(4,5)**

**(8,5)**

**(2,4)**

**(4,6)**

The traversing will be different because stack’s pop function removes the top while queue’s pop function pops the front. The stack’s implementation will check a while row/column first until it realizes it is not the way. A queue on the other hand will fan out, switching directions until it hits a dead end and stops fanning out in that direction.