**CS 115 – Homework #1**

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"I pledge my honor that I have abided by the Stevens Honor Code."

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# Picobot "Diamond" Code - Map #3  
# CS 115-C - HW #1  
# Sid Bhatia

# "I pledge my honor that I have abided by the Stevens Honor Code."

# State 0: North  
# State 1: East  
# State 2: West  
# State 3: South  
# State 4: Vertical North  
# State 5: Vertical South

# Figure out the logic necessary to fill-it in  
# Every time you hit one of the corners, you have a wall  
# Make it so that it goes in a zig-zag way so it fills one column at a time or one row at a time

# goes to West Corner from Bottom Half  
0 xxxx -> W 2 # goes west  
0 xExS -> W 2 # goes west in bottom right-half  
0 NExx -> W 2 # goes west in top right-half  
0 NxWx -> S 3 # goes west in top left-half  
0 xxWS -> N 0 # goes west in bottom left-half  
0 NxWS -> E 1 # goes east in West Corner  
0 NEWx -> S 3 # goes west in North Corner  
0 xEWS -> N 0 # goes west in South Corner  
0 NExS -> W 2 # goest west in East Corner

2 xxxx -> W 2 # keep going west  
2 xxWS -> N 0 # goes north

2 NxWx -> S 3 # goes south 1  
3 xxxx -> W 2 # goes west  
2 NxWS -> E 1 # goes east

1 xxxx -> N 4 # goes vertical north  
4 N\*Wx -> S 5 # goes south  
5 xxxx -> S 5 # goes vertical south  
5 xxWS -> E 4  
4 xxxx -> N 4

5 xEWS -> N 6 # goes north in bottom corner  
6 xxxx -> E 7 # goes east  
7 xExS -> N 8 # goes north 1  
8 xxxx -> N 8 # goes north

8 NExx -> S 9 # goes south 1  
9 xxxx -> S 9 # goes south  
9 xExS -> N 7 # goes north  
7 xxxx -> E 7 # goes east