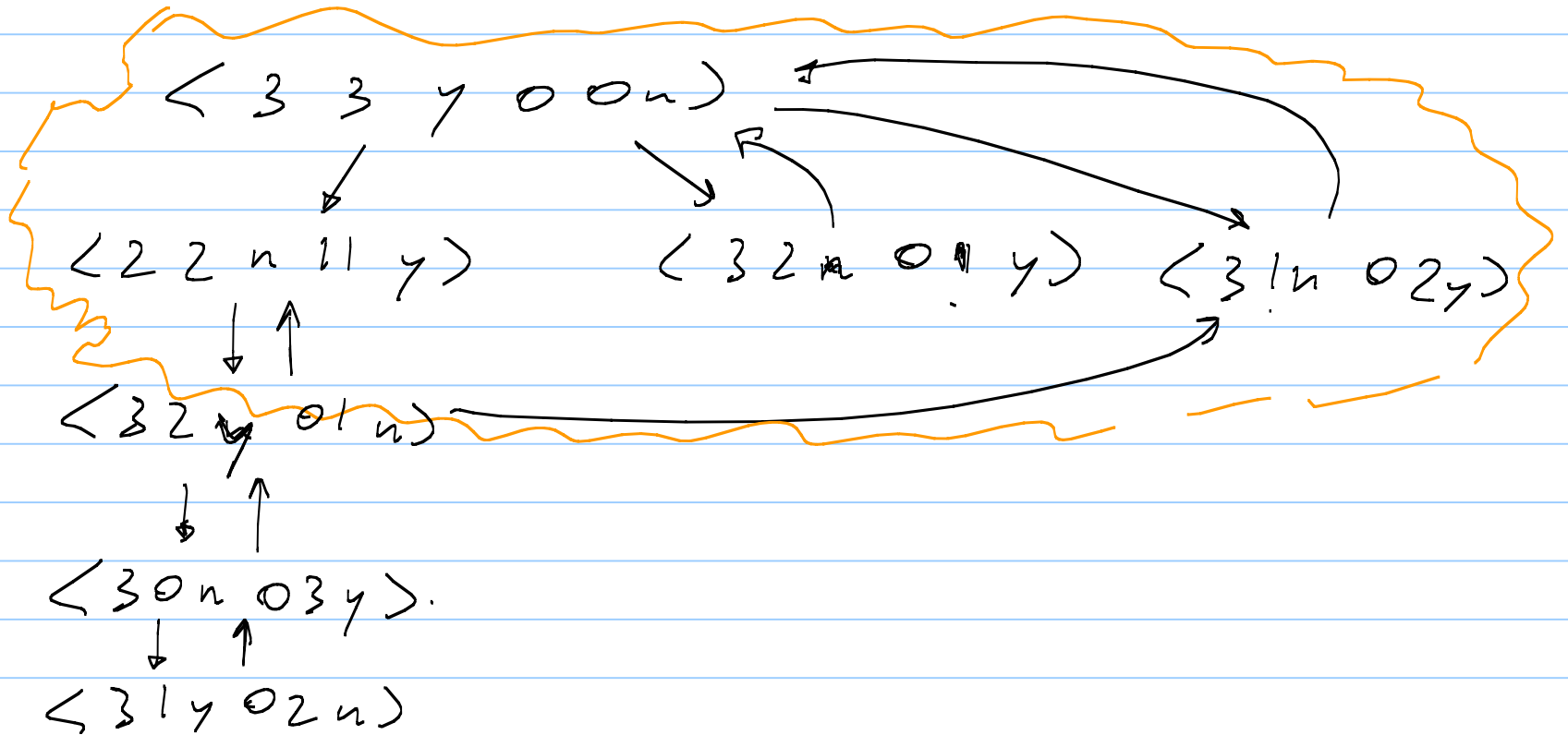
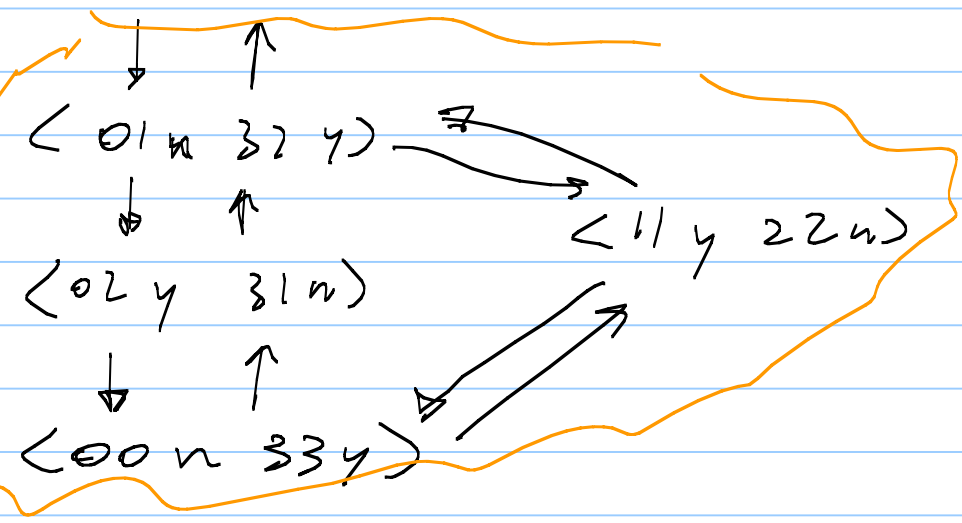
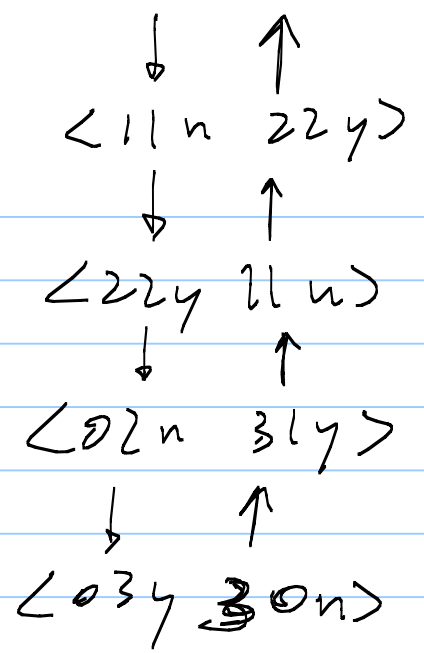
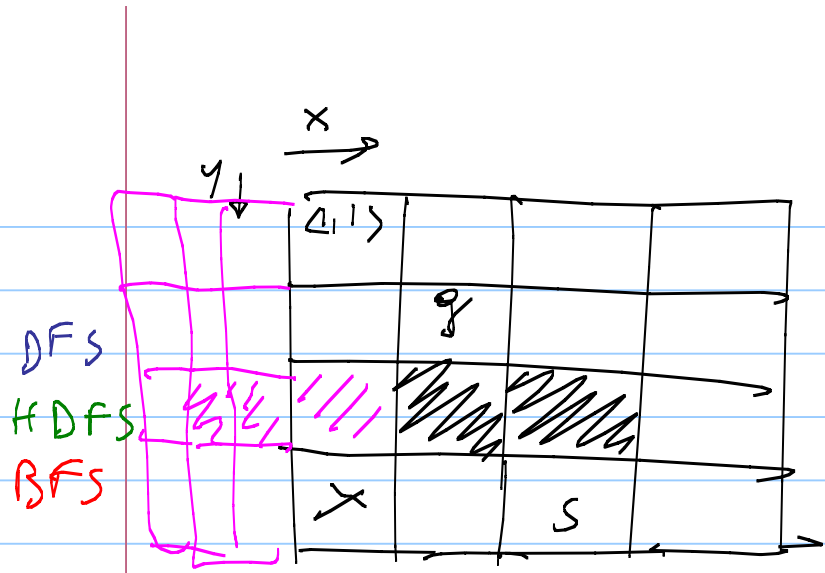


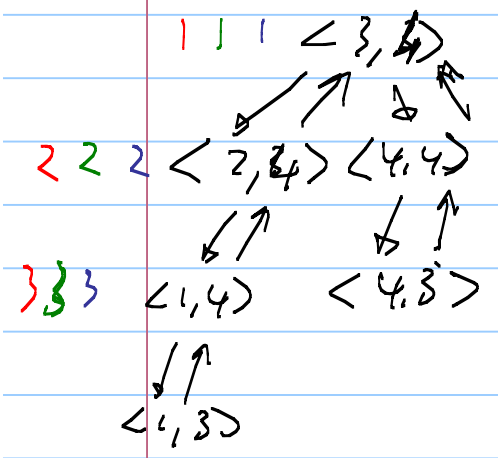
State: (Missionaries on LB, Cannibals on LB, Boat on RB,
 Missionaries on RB, n on RB, Boat on LB)







$g = (2, 2), s = (3, 3)$



Purple squares show a situation in which DFS, HDFS, and BFS search different portions of the state space.

Manhattan distance on the grid (ignore obstacles)

$$|x_n - 2| + |y_n - 2| = h(w)$$

Manhattan distance	states
2	1,1
1	1,2
2	1,3
3	1,4
1	2,1
0	2,2
*	2,3
2	2,4
2	3,1
1	3,2
*	3,3
3	3,4
3	4,1
2	4,2
3	4,3
4	4,4