Q4. 11) permutation. position odd number cols, 207 156 483 2 \* 7 |1+5+2+2+|+| = |2| inversitys 156 483 solveable 27 156 483 iii) since bys will find the shortest solution, run the stile-search. By tile, which is a simple bys program solves sliding tiles. It needs: minimum 19 moves to reach the goal. By running stile-search. py program with Pz

the o-level node is the original B,

to the goal state/node, therefore,

we know there are 19 levels of nodes (from o-level to 18-level),

there are 19-1+1 = 19 moves to reach the goal.

and we need one more move