Pagia Sliniusan at) Implement the 8-pagged peoblem wing At algority 18M 18CS 069 using Howestic function of Manhattan distance with - AI Lab-1 depth not more than 3. If goal state is not reached with the limit, agent must report "NOSOCUTION" 13-11-2020 Pagashnivasas 8 2 3 4 6 7 5 1 1 2 3 4 8 6 7 8 1) Greate the function that finds us the total estimated east though node n-f(n)1 def print_geid (sec): det h (state, target): 1/ Manhattan distance digt=0 fol i in state: d1, d2 = state. index(i), taugot, index i) 21, 40 = d1 1/3, d1/13 22, y2 = d21.3, d2/13 dy++= abs(21-22) +abs(y1-y2) setuen diet 2) beate a Search function To leavele across the tree using f(n) to relect the next note a) Make sure it to disard visited sites b) Create possible moves function
c) Create more generated function

def astal (sec, target): states = [sec] oxited States = set () while len(states): print (f'Level: [93") Moves = [] for state in states; visited_states. add (tuple (state)) Print-glid (8tate) if state = = taget; print ("Sucers") moves += [more for move in possible_moves (starles, virted states) if move not in movey costs = [9th (move, talget) for move in moves] states=[moveg(i] for i in lang (len(moved))if
costs(i)==min(costs)] Plint ("NOSOLUTION") 11 det passible moves (state, vijited_states); 11 def gen (state, direction, b);