1 BM8CSC62 AtlanshuRanjan

A algorithm to solve 8 passe :

howistic: Manhattan distance

def montrottan(state, target) > to calculate manhattan

def possible mones (state, rivited states): s to get the possible mones from current state

def gen (state, direction, b) -> to generale action from

possible state (direction is

direction to which we chose to

more, b is index of empty cells.

def print-grid (state) - so print everent state

def a star (source, target):

states = [source]

9=0 6# here we use it as depth visited_states = sell1 while (lentstates) && g = 3):

moves: []

for state in states:

visited_states.add(fuple(state))

print_grid(state)

if state = target:

print("Successi")

neturn

moves + = [move for move in possible moves(state, visited_states) if move not in moves]

6=Eg + 100 monhattan(more, torget) for more in movie # f(m) = g (m) + h(m)

States: Emones [i] jor i in range (landoners 3) is \$[i] = min(f)] & taking minimum co gt=1 \$\pmincreasing depth prind(fail)