(xix) = EIND_BLANKINDE_State)  directions = [upp", dama", "tett", "right"]	neighbor. h = MANHATTAN DISTANCE  neighbor. h = neighbor. g + neighbor. h  if neighbor. not in open list get f volue  function found neighbor. f & open list get f volue	for neighbor in bet Neighbors (wrient mode)  if neighbor of the in closed list.  continue  neighbor of current mode of +1	open list push (stant mode)  while open list is not empty:  (unrunt mode = open list pope)  if arrent mode state = goal state  seturn Reconstruct path (unrent mode)	function ASTAR_8_PUZZLE (Staxt_State, goal State):  goal_flat = flutten (goal_State)  open_list = prioxity Queuel)  closed_list = Set()  Start_mode = Node(Staxt_State, g=0, h= MANHATIAN_DISTAN	A* Algorithm for 8-puzzle problem
	Current - position - find (tile in stock)  dictorne += obs (good - position - y - current - position - x)  + obs (good - position - y - current - position - x)	function MANHATTAN DESTANCE (state, goal flat):  for each tile in state:  it tile 1 =0;	puth=II  while node parent is not null:  path append (node mose)  node = node parent  return reverse path)	for Each direction in directions:  if valid move (direction, xix):  new-state = Swap-tiles  neighbors add(Note (new state, powent-mode, move-direction))  direction)	Classmate Page