frontier = [North (North E13)]

olet south moves (Note).

Do state. gaid. with induct 1)

class Node!

def-init_ (self, state, droil)! oly order (state) stanger)!

self. great = state

self. Level = devel

self. cost = 0

def G(state):

creturn state. Level

def H (state, target);

gerid = state. glid

alist=0

yor i in grid

dl, de = quid. indere(i), target. indere(i)

x1,41 = d1 %. 3

22, y2 = d2 /. 3

dist + = abs (xf-x2)+ abs (y1-y2)

return dist

creturn dist

def F (state, target)!

suturn Gr(state) + 4 (state, staget)

de def printGrid (state):

state : state, grid. copy()

state [state. circlex (-1)] = '1

parent (state [0], state [i], state [i])

print (state [3], state[4], state[5])

print (state [6], state [7], state [8])

print ()

S.R. Pureed

S. R. YUNEE TH IBM 12CS087 det interentier (frontier, neighbour) creturn lu ((state for state in a fontier if state. grid = = neighbour. grid]) > 0 def ostar (state, target)! frontier = [Node (state [1])] print ("Fail") to the school)! def possible moves (state); 5 = state. geid. at circlex (-1) pos_moves = [] pos-moois append (gen, state, move, b) return (Doubi Japen) def gen (state, move, black): temp = state. grid . copy) delle dint + > ada (al cution temp astar (see, target) punk (settle (1) stately), state(1)