13/11/20 A) Lob Test) Sangeer Kunun Sigh 1 BM 18 CS093 Program 1 Creating Junction that finds as total estimated Cost though node in dy h (Stote, Start)

11 mon hotten di stonce

dist = 0 for i in State. dide = State index (i), target, inclus (i) $n_1, y_1 = d_1 : 1.3, d_1 : 1.3$ $n_2, y_2 = d_2 : 1.3, d_2 : 1.3$ chst += abs (n,-n2) + obs (y,-y2) refur dist 2) Create Scarch Jun. to praverse across free using f(n) to Scheet next well a) Make Sure it to discard Visited Sites b) Create pussible more puis c) Create more Generator puis def a Star (Sec, target) States = [Su] Visited - States = Set () while Ich (States)." print (f" land : fg 4") mores =[] for State in States Sengeer

Sugger Kuman Sigh 1BMBCS-93 Visited _ States. add (typle (State)) print-grid (State)

1) State = = torget print ('Succes') noves += [more per more in possible - mores States, Visited.

States) if more not in mores] Costs = [gr h(move, target) for move in moves]

States = [moves Ci] for i in range [len (moves) if

Costs Ci] = = min (costs)] mint ("No Solution") 1/ def possible-nones (stote, Visited-Stetes): 11 dy gen (State, direction, b)

Senter Kenner Singh 1BM18CS093 Class Purrle: dej- init - (Self-Size) Self. closul = C] dy accept (Self). for frin roma (0, Self. n): temp = input (). Split ("") piz. append (temp) ochun puz def J (Self. Spart, good) return Self. h (Start deta, goed) + Start keel dyh(Self, Start, god) temp= 0 for j'in rouge (o, Self.n): for j'in touge (o, Self.n): if B start [i] [] != good [i] [] and start [i] [] != " ocher tent Sangeer

Sayeer Kuman Singh 1BM18.CS093 Def process (Self). print (" Enter Start Metria \") Spart = Self accept () Mint ("Enter God notrin \") god = Self. accept () Start = wood (Start 0,0) Start f. vol = Self. F(Spart, Goel) Self open append (Spart) print ("(n m") totale True: Cour = Self- open (o) print ("1") for i'm Car. date fas ini print (J, end = print (" ") if (Sey . h (Curs . deta, goel)= 0); hrech. for i'm Con. genete - child (). i, ful = Self. f (i, goal) Self. open append (i) Self. closed. append (Cur) del self. open [0] Self. open Sort (Kay = lambely K: n. Food, reverse folse) puz=puzzle(3) puz. prous () Songeer

Santeer Kumen Singh A) Lablest 1BM18 CS093 Main Jun def index (mylist, v) for i', vin commente (nylist). リントかれた redura (1, m. Inda (U)) dy I non hutten (temp). Sum 20 for i in range [3]: for I in renge (3): if temp(i)(j] ! = 0 : b= index (temp, temp [;](]) c = index (good, temp[i] [5]) Sum += abs (b(o) - ((o)) Sum += (abs (b[i] - C[i])) report Sum dej possible - mores (temp, visited) possble_mous = [] b= inda (temp, 0) christien = () if h(0)(2: discition of append ("d') 1/ 420) 10: direction, append ("u") 1/6[] <2: direction opposed ('r') Senjew

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Jangeer Kumer Singh 1BM 18CS0330 月 此门》曰: dreiten. oppend ('I') Jerin in direction! more = gen (kup, i, b) if nove not in Visited! possble nus. append (more) Jeturn possible nous, dy Solve (visited, limit, sto Ste) print (" Reg mores to reach God State + str (dust)) if Src = 2 4 sel! Yehren True. 1/ linut) 3 return false min 2 noth. inf Visited append (sre) possible - auton = possible meres (src, visited) new_nus[] for action in the possible action: non-dist = nonhetfan (action) if action not in visited and mon-dichet comin. min - min-dist new-nove = ection print (" Move: limit+1) print_ matrix (new. mou) if Solve (v, Situ, limst+1, new-more): return Tre return false. Shyreer 8

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