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	Smanth-kv.	and the second	
7.	AIlab test-1		
(H-1-	1BM18CS112	1 / m	
	09/11/2020		
<u> </u>	Implement IDS algorithm u	sina suitable	
	Implement IDS algorithm u heuristic function where d	should not be	
	greaker than 4		
	(1-)		
_801=			
	# code.		
	,. v= o.c.	,	
	d 0 - d 0 - (1 - 1 - 1 - 1 - 1	1 / 1	
	def des (src, target, visited	J-states, limit)=	
	if sxc == target	T	
	return True		
	if limit == 0		
	vehyn False		
	5(2 5 0) 21 -1 21	1-01-1	
	visited states append (svo	
	poss_moves = []		
	Pall-mayes = n soil	1. 101.1	
	Passib	le states (SYC)	
	poss_moves = possib	visited_states);	
	for more in poss-more	es	
	all-cost [index]	h (movertarget)	
	naux = inaix+	1173	
	poss=[], radex oi	Auren	
	min-cost-min(all-c	1)	
	for move in pass-m	77	
	possind is al	I cost [index] == min cos	
	boss-abbeng (wo	Track = witten	
	-		
	index += 1		
(D)4	nanth.kv.	and manually	

	Page No.
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	for move in poss:
	A Comment
	JP () 15 (
	those target virted il
	netwo True
	if (dfs (move, target, visited states, Hmit-1))
	Freturn Folse
_	did not be a few and the few a
	As Part of the contract of the contract
	my perible states (excluded elela)
	def possible states (sve, visited states).
	(-1)
	d=[]
	if blank is not in to 1 22-
	d (1222-1(1-1)
	of blank is not in [0,1,9]. d-append ('v')
	2-1 0-4-1
	if blank not in [6,7,8); d-append ('d')
	dappend ('d')
	23/27
	It Hark nik 1 5 - 2
	1 blank not in (0,3,6);
	if blank not in [0,3,6); d-append ('l').
	[] = Commercial
	d-append ('r')
Salut	d chard(1)
	a suppend (v)
	all states = [] a
-1-0	for ind:
	all states append (get-possible (svc, i, blank))
	(Je = p = co = co = q = co = co
	1 (15)
	teturn (more for more in allustates if
	return [move for move in all states if move not in visited states]
a_010	Carlailtealli II E. Iliani
	Town the second of the
	I to what is a
	(5) Juman thiku

		Page No.
	def get possible (sxc, o	
	temp = src-copy ()	
	temp[blank], temp[blank	(-3)-
77	temp (blank-3)	
	if action == 'r'=	•
	temp[blank], temp(blan	K+1)=
	temp (blank+1), temp (
	if action = - il':	
	temp[blank], temp[blank	-J=
	temp(blank-1), temp(blank)
	if action == 'd':	
	lemo(blant) temp (blank	13)=
	Jemp(blank 13), temp(olank)
	return temp	
	def h (State, target):	
	x11 = 0	
	for i in state: indlyinds = state.ind	sarget index (1)
	indlyind9=3+94.10d y-1, x-1= indl*/03,	ind 1/13
	y-1,2-1-1,d2=/-	
		1-x-2)+
	Mis odist = abs (x.	1-4-3
	CO	
	return dis	

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(16hame==="	- main 1=
for i in r	
if (dfs)	(src, target ,i))
Goodad and Treturnal	Tre
	= 'x' alitop li.
	1 [Hack] I
4 Jumanth	
-[X = - (1011)
-U-Kapla Jam	Ci-zapld) Gmil
V 1	. 17 1 goit 20)i
	Sal (Yasid) gast