8-puzzle. R224 St. M = [0,1,2]
[3,4;5]
[6,7,8] · Define the goal state in a 3x3 modries.

2 Ruction to June Slandspair for i un range

for i un range

for j un range

(if state [i][j]==0

leturn [i][j] Jour directions ise up, down, left, Right. 457 A57 806 -> 860 the step is edded to stack . The Slank space 13 moud in other directions to up, down life

	Date
	Converba, each whele into a vale ofter it !
Sec. 5	merked as work? the node is paper and it
BE	becomes the comend state.
	Each valid neighbor is pushed into the stack
	towns stowns the
	neighbor = gel-neghbor (1-mo-d)
	Hyd I what his
	for neighbour a neighbour
	of wighbour ij - not while
	stack append (neighbour)
	[215,1] = stoke mouton
	stack = [2 2 m]
334	Node (cp)
	Node (don)
	No de (10/4)) is half soll
	(work (Right)
22-	11 (1) 1.10) mily plant of 1 mg
- 19	note (right) is popped !
	and it is explore?
	1 2 (3 00) 111-200
	4 6 0 -) 9 6 3 123
	(10 10) 71 5 ald 1 10 5. 8 406
	(1000 de 200 - 258
	7 2 3
	(1. 1. 1. 1. 1. 4. 6. 8
	(10. 10 mm) = (mm) (2 5 0)
	Alles he stack of LIFO is chocked
	(14-101 my) = foly 12
	The state of the s
-	

def_init - (self , state, perent = pone, move now self state = state of the self parent = parent self. Lepth = Lepth def god state (state). return steh = [[1,2,3], [4,5,6] tile di della del find - Stonk toda (state) for i in rough (lin (state)); for j in renga (lin (state [i])).

If state [i] [j] = = 0: def neighbours (noce) She to = node . Stack rov, 101= find Slonk. Wile (Stack) neighborrs (3 moves = 1' up': (70 u-1, 101),

'town' = (now+1, 101),

'left' = (10 w; 101-1),

'right' = (10 w, 101+1)

hate / / An more (new year, new (al) in more ilens () were state trans [(10) trans neighborse appens (Note (new-state , note) del- 26 alimit (startastate, Lepth. limit)? stock = [Mose (start = State)] + ghos while stack:

current rate = stack. pop() return reconnect poth (current node) visite? (+-de (map (tople, corrent-hose state))). of errend-note depth < cepth-limit! for neighbour in heighbours: - if (type (map (typle, neighbour state)) not in visited stack append (neighbour) def reconned - path (node): peth =[] poth. opport (more. man) resturn pett [: -1]

[4,0,6] [7,5,8] Eepth limit = 1300 [word : lett were solhon = 2 for himid (control - state, ept. Output [(1/d2. hosts) stoys = xlogs Solution: ['right'; down! 'left'; 'up!; 'right'; down!] Continued for Americans expect of growth when I believe 4 at Style & Style & Law berry