class Node ded init . (self, state, parent - None, Hors - None depth=0): self state = state self parent = point self nove - more self-depth-depth det god stok (stete) return state = [[1,2,3],
[5,5,6],
[7,8,0]] def tind blank tile (state): for i in range (len (state)): for j in range (len (state [i])). id spt [i][j]==0: return (1, j) det reighors (rade): Sow, cot = find - black - file (tok) reighter- [] noves: { 'up ! (row = 1, col), (donn': (row+1, co)) 'left': (row, co-1), right (now, colti),

for rose, (new row, new col) in roses (ksl)

new stok [ros I col]
neighbor append (Node (new stoke , rode)

def dfs-limit (skot skek, dept limit):

stock=[Node(start stake)]

visited = set()

while steel; current rate = steek pup()

it is good (current note state):
return recorded publicament mite)

visited add(type (rap(type, circut note stole)))

if warnt_note depth < depth_timit:

neighbor get-reighbor current rode)

for reighbor in reighbor:

if (tuple (rep(typle, neighbor dute)) not in wind

stock appoint (reighbor)

return Noc

def reconstruct-path (note):

path = []

white note powert is not Nove:

path append (node move)

rode = node powert

return pak [::-]

initial ste=[[1,2,3], [4,0,6] 17.5,8] dept linit=10 rolation: de-limit (initial state, depth-limit) Output Solution: ['right', 'down', 'left', 'up', 'right', 'down', 'left; 'up, 'not; 'don'