Name-Panag Gottans USN-1BM18C8067

Exp.3.

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8 purple public using streeties difth standa bfs. dy bys (suc, target):

UPsited\_states = [] Visited status append (suc) our = [ src] C=0

whole our:

C+=1

if arr[o] = = target:

ant = possible\_mous (arr[s], visited-states

are. pop(0)

return false.

possible nous ( state, visited - states):

b = state, index (-1)

if b+3 en range (9): d. append ('d')

ef b-3 en range (a):

rutum Tome

a oppend ("u")

eg b not in [0,3,6]: d. append ("C)

4 b not en [2,5,8]:

dappend ('r')

-

pos-mous = []

for mou end: pos-moves. append (gent state, more, b)) not in visited - states) def gen ( state, direction, blank\_spot): temp = state. copy() ef direction == 'd': a= temp [blank-spot + 3] temp & [ blank spot +3] = temp[ blank spot] temp C blank -spot ] = a elif derection = = 'u': a = temp[ blank.spot-3] temp[blank-spot -3] = temp[blank-spot] temp [ blank - spot ] = a clif direction = = 'l': a = temp[ blank-yot-1] temp[blank spot-1] = temp[blan-ypot] temps blu-spot] = a} dif direction = = 'n'; a = temp[ blan-spot +1] temp[ - + 1] = + emp[ black spot temp [ blan spot] = a return temp.

# Test 1

src = [1,2,3,-1,4,5,6,7,8]

target = [1,2,3,4,5,-1,6,7,8]

pullet (bys (src, target))