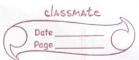
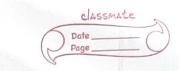


	Date
3/11/16	8. Puzzle RFs
	Aim - To implement 8 puzzle game using RF3 search algorithm:
	Algorishm.
	Breedsh finest scand (initial state, goul suite).
	fronti er= Quew-rus (initial stute)  england = Set. new()
	Milenot grentier ist myty():  Stute = frentier degrees()  explered ddd (shete)
	i) goul Test (suite): suturn success (suite)
	Jer neighbour in Mute neighbours ():  If neighbour not in Frontier Vengland:
	grantier. Orqueux (ruightour)
	rutain Failunev.

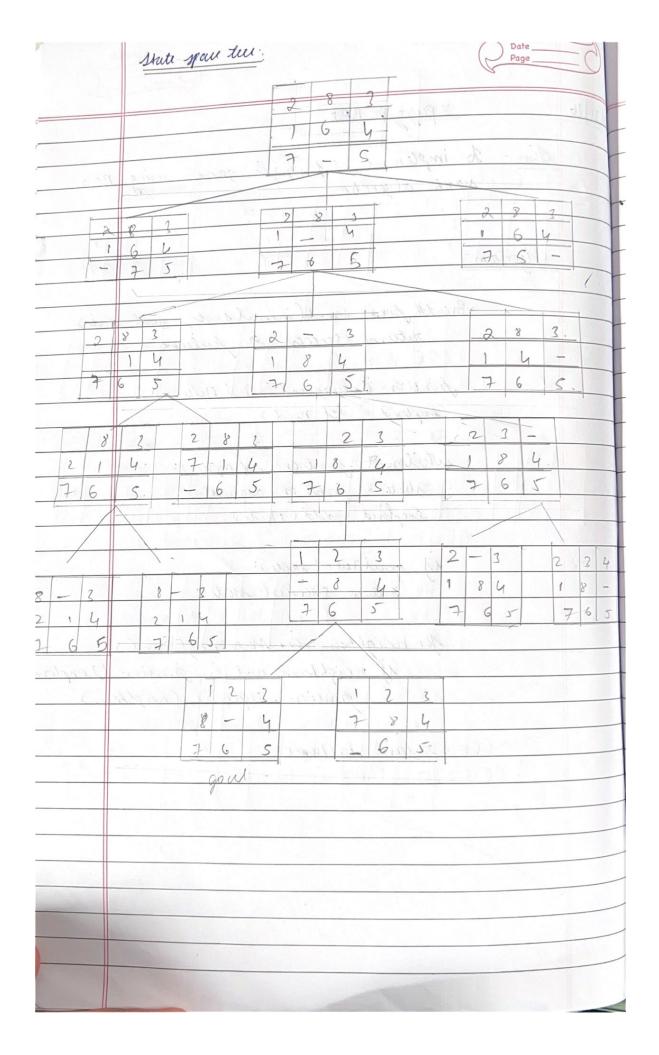


Cooli: - : Classe (Colongrap)	the second
import copy	
THE PARTY OF THE P	
inp=[[1,2,2][4,-1,5][	6,7 8)]
sut = [[1,2,1),[4,5,6), [=	1,8,-1)
Mar Tomper	
print ("Inter the input puzz	le")
gr in range (3):	Royan - March 17
for of in range (2):	
inp(i)(j) = inp (input ("r	ntu number at "-
sk(i) +" " + 2	$sh(j)+"\rightarrow"))$
The state of the s	
dy muc (temp, movement):	en and Compare (4))
y movement = = "vr":	
ger i in range (3):	militarini ) i di
for j' in range (2):	Car days ad
y (templi)(J)==-1	
y 11=0.	July Madela
templi 11 ]=	Jemp (i-1) (5)
temp (i-1)(5)	
sturn tamp	
	topic topic
if movement = = "dan"	Britis att
for in range (3):	· · · · · · · · · · · · · · · · · · ·
for j in runge (3)	
y ( sempli)(5) =	2 = 151 ) 1
y  =2:	10: 10: 10: 10: 10: 10: 10: 10: 10: 10:
ting (i)(s) =	
time (i+1)(j	
return kemp.	11/1/1
7	
if movement = = "lift"	
ger i in rang (1):	
for j in range (3)	all freeze

	if (temp(i)(J) = = -1).
	$\mathcal{L}_{\mathcal{L}}}}}}}}}}$
	y 5/20
	semplisco) = templi) (5-1).
	Kmp(1)(J+1) = +1
	Eltur temp.
	i and the state of
	if maximent = = "right"
	for i in range (3):
	Ju J in runge (3):
	y (temp [i)(j) ==-1):
	if y 1 = 2:
	Kmp[i][j] = Kmp[i](j+1)
	Ampli)(11)=1
	relturn etmy
	The state of the s
	dy bfo().
	global inp
	global out Colonia
	feeth cost = 0. Many grant
	queue=()
	inpx = (inp, none").
	quem. affend (ingx)
	lile (T)
	while (True):
	puzzle = queu-pop
_	puthort = peath cort +1
	print (oh (puezle [1) +" -> "+ oh (ruzzle [0))
and a	y (kgylerlo)== out):
	gript ("Faind")
	print ("park cost - " + Dr (parkcost - 1)
	break
	De :
TITAL	if (puzzle[1]] = "down"):



	Date _ Page _	
	temp = copy desputy (pazzle Co	7) 5 6/11/26
	11P = more ( temp, "UP)	ASING MARKETINE
1 av signer v.	yn= (vp, "vpx").	8 1
	queue insut (0, upn)	
	y ( rugge [1) 1 = "right"):	Dr. I
	Jemp = copy · despeopy (Puzzle (0)	)
	left = more (temp, "left")	
XX.	lyt = [lyt, "lest")	
	queur insirt (0, legen)	
	Stan True	
	if (puzzla(1)) = "vp"):	
The second secon	temp = cory. deepcopy (puzzle	(0))
	dawn - more (temp, "dawn")	
	down = [davn, "davn"].	
	quem. insurt (0, davn x)	
	of (pury yle (1)) = "left"):	
	Semp = copy. depay (ruzzlil	(, ) )
	right = more (kny "right")	.0))
	rightn = [right," right")	
	quun. in our + (0, right).	
	The state of the s	
b, fo()		
V		
		The state of the s



	Date
	Page Page
	Restu member at 0,0
<u>30</u>	Ente number at 0,1
	Sinter rumber at 0,2
	Enter number at 1,0
1 36	Inte numbera at 1,1
7 = 1	Inta number at 1,2
0-1/-	Inter number at 2,0
	Intu number at 2,1
· .	Inter number at 2,2
. / E - X	BFS - I I I I I I I I I I I I I I I I I I
	non -> [(1,2,3), [4,5,6), (+1,7,8))
12/0	MP -> ((1, L, S) (-1, 5,6), (4,7,8)).
	lut > ((1,2,3), (4,5,6), (-1,7,8)).
	days -> ((1,2,3), (4,5,6), (-1,7,8)).
1 / / / /	21ch - ((1,1,1), (4,5,6), (7,-4,8))
1 1 2	11e - ((-1, 1, 3), (1, 5, 6), (9, 7, 8)).
18/3	left > ((1,2,3), (-1,5,6), (4,7,8)).
	right -> ((1,2,3), (5,-1,6), (4,7,8)).
	up -> [(1,1,5), (4,7,8)).
	lest -> ((1,2,1), (4,5,6), (-1,7,8))
	down->: [(1,2,3) (4,5,6), (-1,7,8)).
	C = C = C = C = C = C = C = C = C = C =
	lyt > ((1,2,1), (4,5,6) (-1,7,8)).
	dan > ([.1, 1, 3), (4, 5, 6), (-1, 7, 8)).
	right > (1,1,1) (4,5,6), (7,-1,8)).
	up > [(1,1,3), [4,-1,6)
7	dan -> [(1,1,1) (4,5,6), (7,1,8)).
	Right -3. ([1,4,5), (4,8,6), (7,8,-1)).
C .	The state of the s