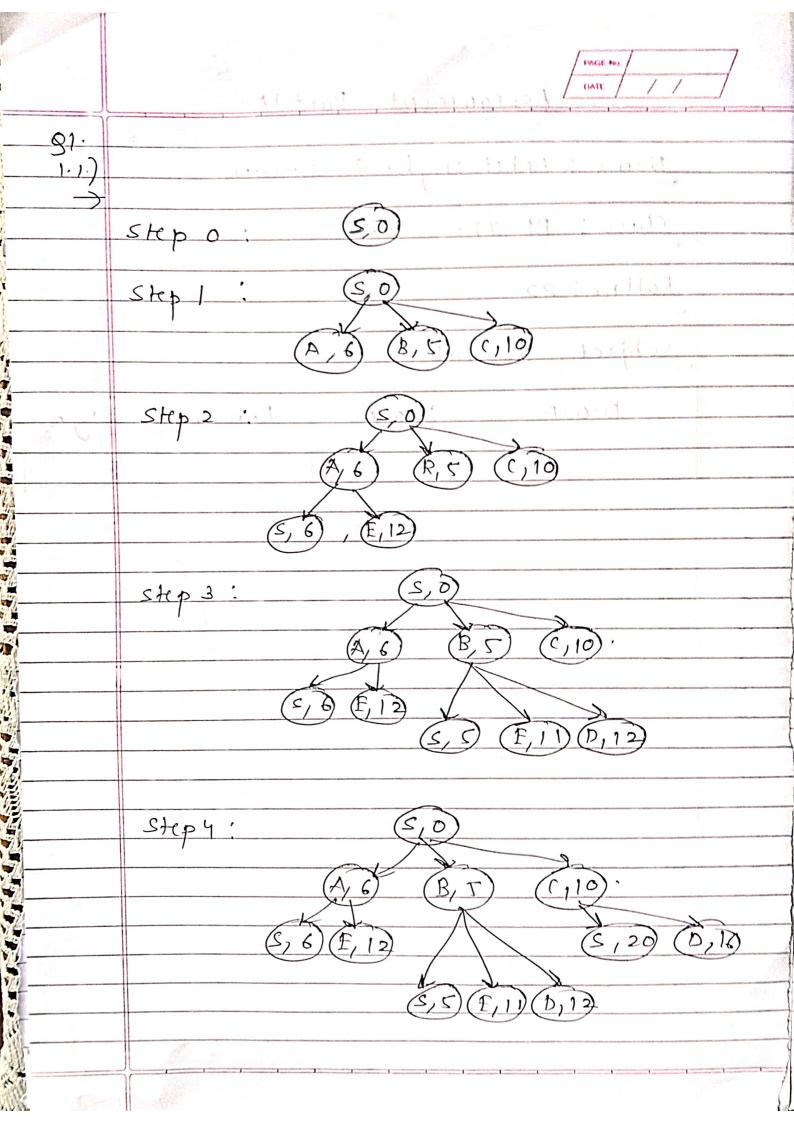
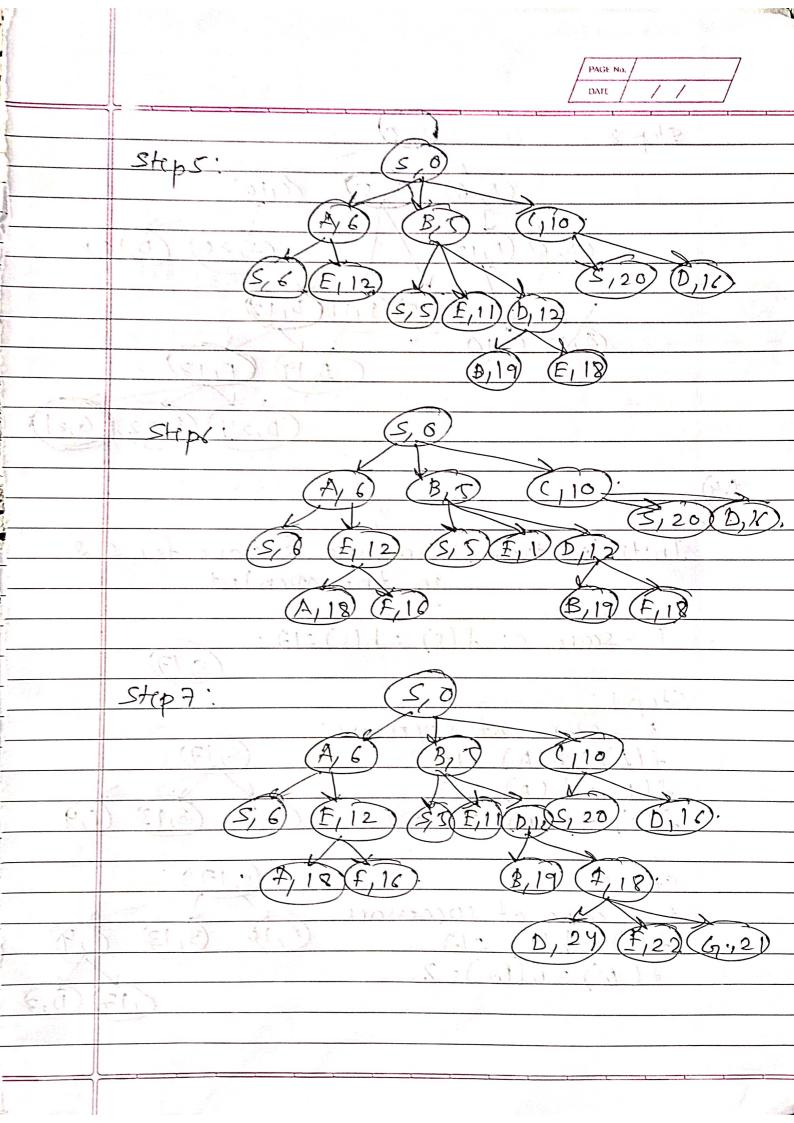
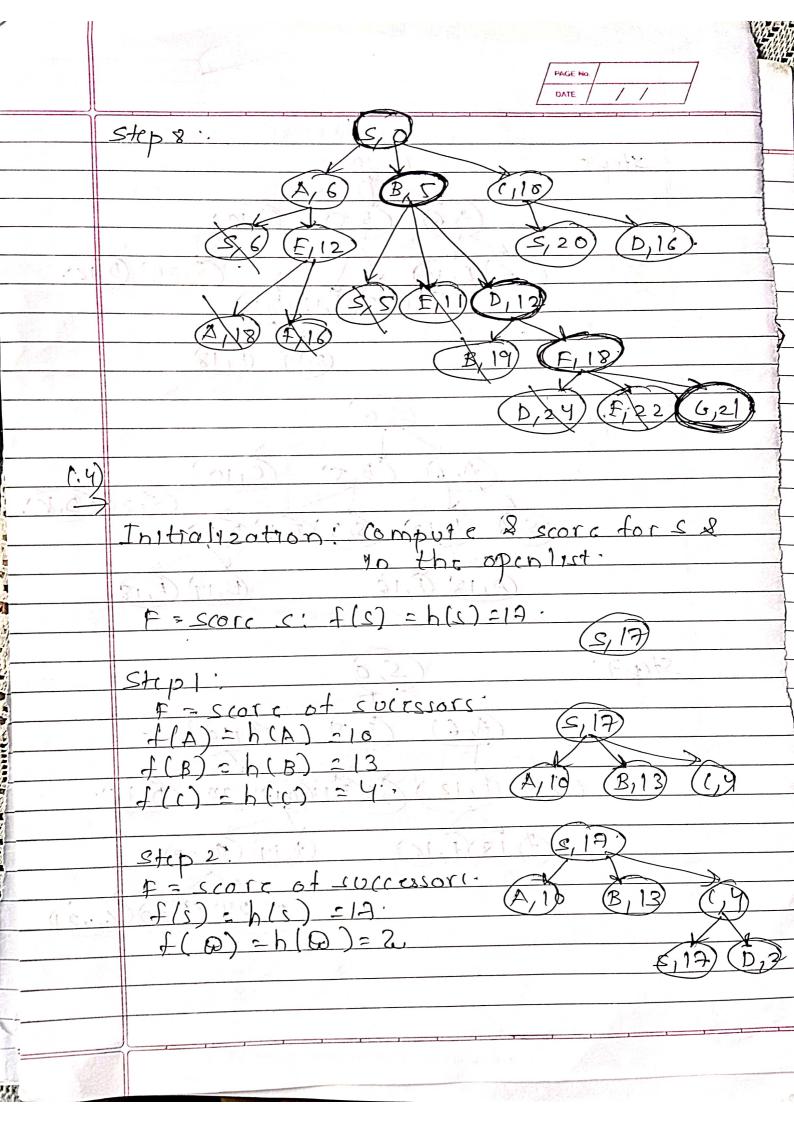
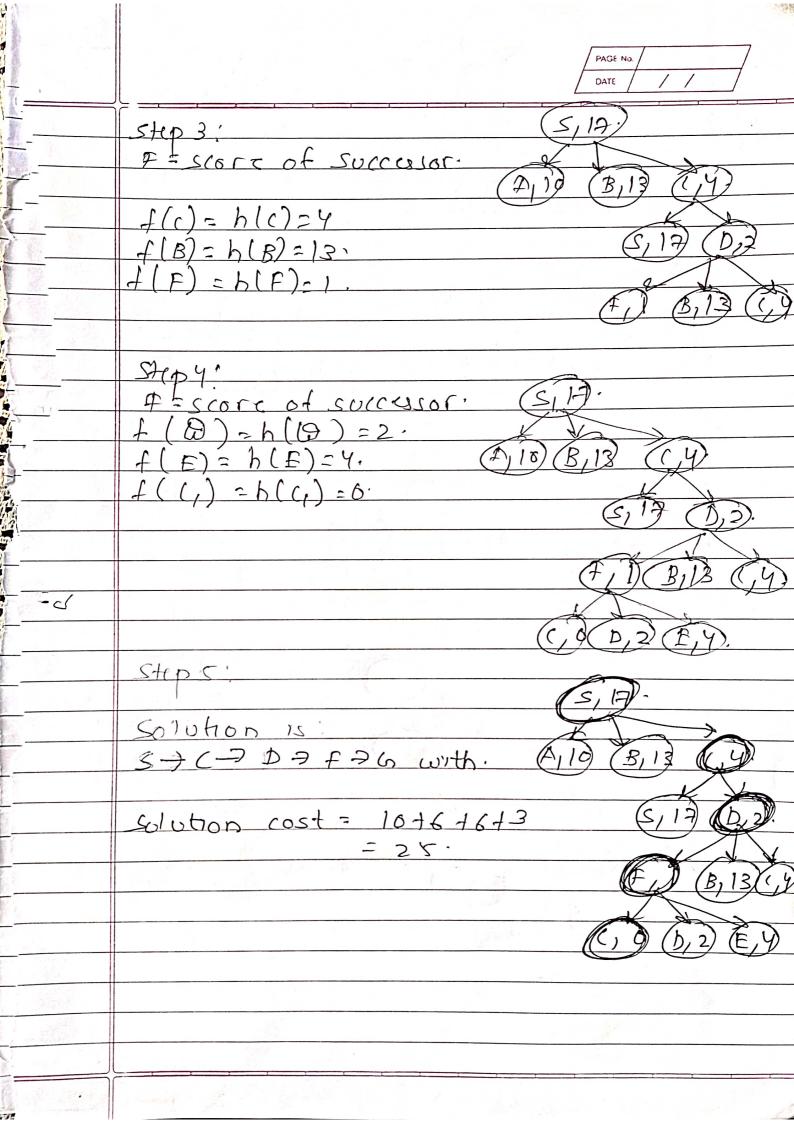
Assignment - Part IA Nome: Antitsingh. A. Yusain. Class: BF-IT. Rollno: 22 (32) Subject: Is lob. D.O.P D.O.A Remark Sign (c) Th. 13. A

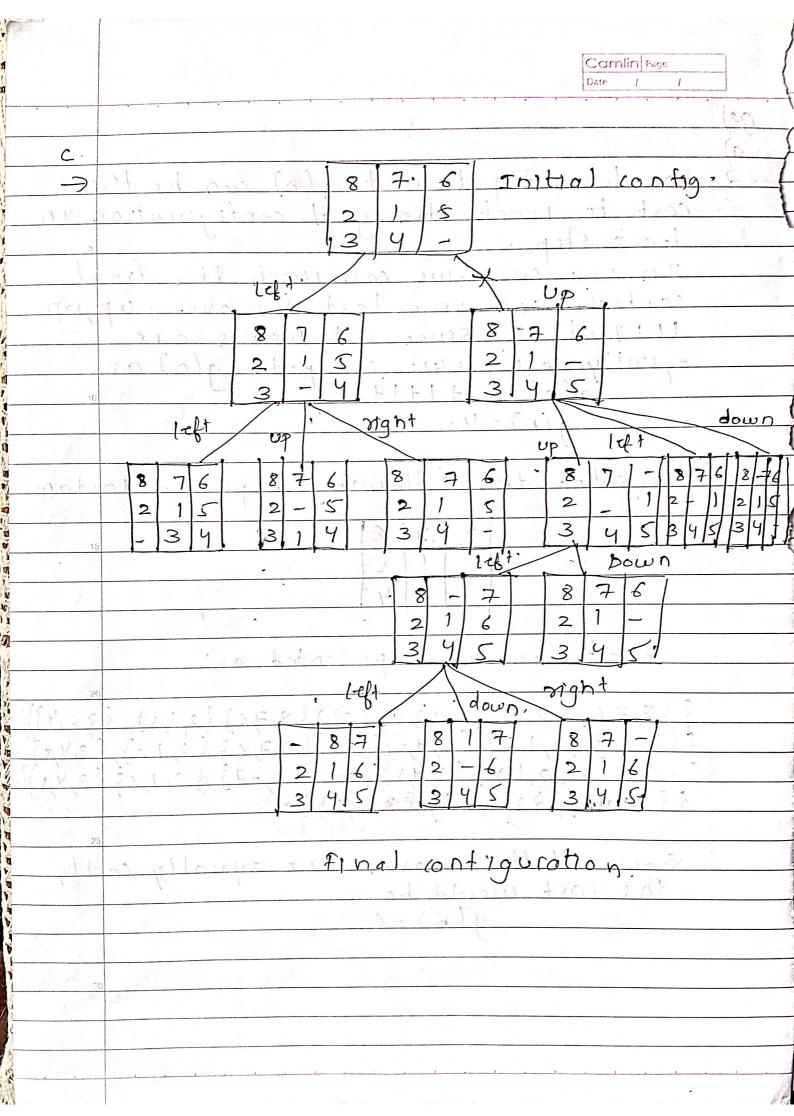








	. <u>*</u>	Camlin Page Date / /	
	82)		······································
	9-7		)
	3	The lowest math cost a(n) can be the	
		The lowest path cost g(n) can be the cost to reach the goal configuration	70
	5	least steps.	
	1	In our case, we can reach the Ana	
		configuration in a last 4 moves . Up;	, up,
-	73	LEFT, LEFT. SINCE all movies are	
		equally costly, we compute g(n) as	
	10	g(n) = 1+1+1+1	
	auna	$g(n) = 4 \cdot \text{triple}$	3
	12/8/10	consider the tollowing & puggle ins	tanso
	DIE	(CO) (CO) (CO) (CO) (CO) (CO) (CO) (CO)	_(,
	1 1 1 2 /	1 1 1 2 1 1 8 2 7 6 1 Y 1 8 1 Y E I H	
	, ,	1 2 1 5	
W.		-1-3/4	
1		Sold can be represented as:	
	20	~ { 1 8, 7, 6 } { 2, 1, 5 } 1 - 3, 4 } } → { 8 8, 7, 6 } { 2, 1, 5 } , 8 3	<u>u72</u>
7		2 18/4/6 2 1 1/2 2 1 -3/3 -3/3 -3/3 -3/3 -3/3 -3/3 -3/3 -3	, ~ 17) j.
	25	{ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	5 1 x 31
	- X	35-18, 73, 22, 7, 63, 183, 4, 543	<del>~)                                    </del>
	25	25	4
7	3	Since all the moves ore equally cost the cost would be	tly
			* P /
	Kingson on the	g(h)=6.	
	30	30	100 m
	1		
	1		
	1		194



Tor Y=1, n=101 tial state
h1(101tial)= Misplaced likes (ount except
h1(101tial)= 4.

hilgoal)=0.

ha (initial) = (orrectly replaced tiles counting be (initial) = 4.

for n= goal state. hz (goal) = 8.

for 1=3 , n=1n(tia) state.

h3(1n(tia)) = Sum of mantatton dist

between current & correct

position of all tiles except space.

b3 (initial) = 0+0+0+0+1+1+1+1

for n= goal state. h3(goal)=0.