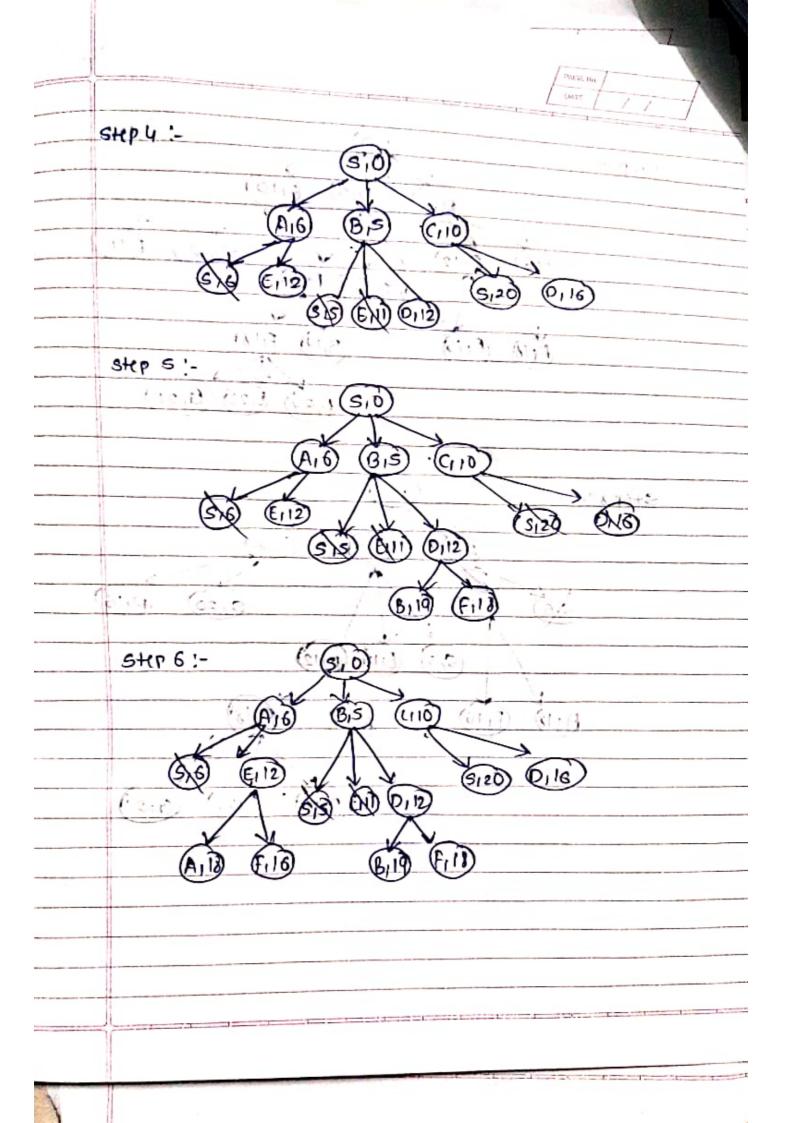
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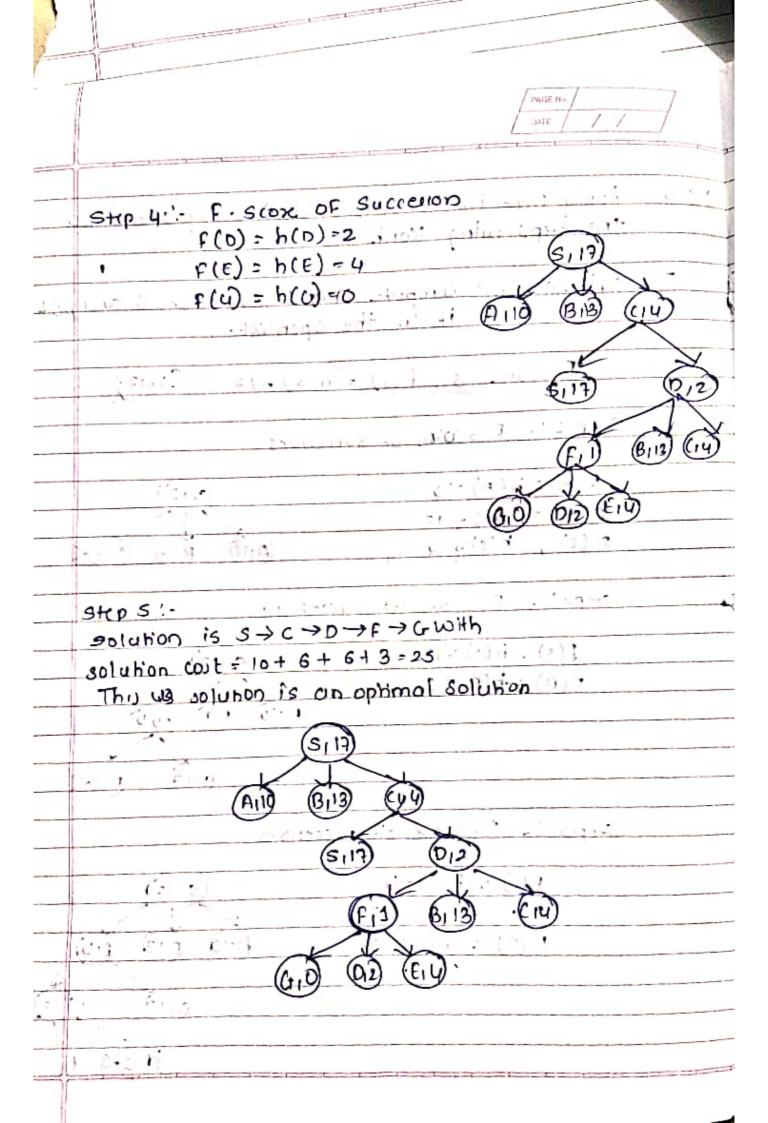
Consider following defination of state space for some 0-1edges is cost to be incurred in moving from one node to other in any direction. The number is xel bout mentioned against the mentioned against the mentioned against the node is huerstic hinchion value. Oll Apply BFS on above grath Step O:-SHCP 1 :-Step 2 :-Step3: -



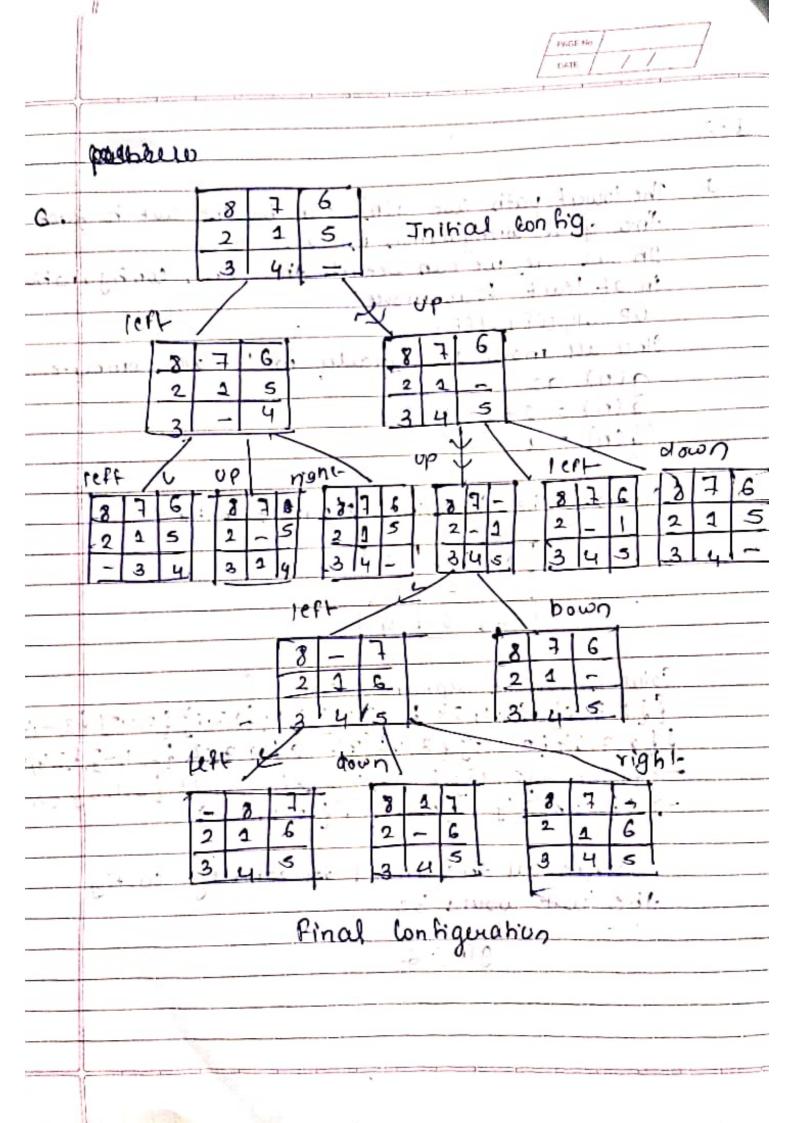
Strp 7:-

1	FACE No.	7		
/-	DATE	1	1	7

01.4.	Apply But Fint Search and Clearly show au the steps wing search tree.
-	Initialization: Compute and f-source for S and put
	F. source s: f(s) - h1s) - 17 (3,17)
1 1	Strp 1 !- F-560TC OF Successors
	F(A) = h(A) = 10 (S117)
	F (B) = h (B) = 13
	F(e), h(e) = 4 (1) (1) (1)
	St(p2; - F-SCOX OF SUCCESSOR)
	f(s) = h(s) = 17: 1 + 12 + 1 (6117) 11110.
	F(D) = h(D) = 2
	(11.2)
	6113 6134
	the trial that
	Step3 :- F. Scox of Successor
	F(c) = h(c) = 4 (5.17)
	F(B) = h(B) 131
	F (F) = h(F)=1 (11) (B13) (14)
	61.11 (31) (0,0)
	(b) · (b)2)
	(F13) (G14)



The lowert path cost g(n) can be the wit to reach the good configuration in least stips. In our case, we can reach the final configuration in of least four mover: UP, UP, LEFT, LEFT Since all mover one equally withly, we compute q(n) as 9(0) = 3+1+1+1 q(n) = 4 Consider the following 8-purilé instance Solution can be suprunted as: { { 8,7,6 } . { 2,1,5 } { -13,48 } → { { 8,7,6 } { 2,115 } { 3, -,48 → 長ま17,6岁 [2,1,5) [3,4,-3少→ 長か17,63 [2,1,-3,(3,4,5)) → 2(2,1,5) {2,1,5) {3,4,53} → 2(8,-,7) {2,1,6} {3,4,5} Since all the move ox equally contry the work would be 9(0)=6.



С,

For i= 1, n= Initial state

ho (initial) = misplaced the work except space

n= goal state n2(goal) =0

For i = 2 , n = initial state

ha (initial) = Cumently explaced him wount expect space
ha (initial) = 4
for n = good state
ha (good) -1

for i = 3, n = initial stake

for (initial) = sum of manhattan did between word

and concer position of all file expect

space

h3(iniha1) = 0+0+0+0+1+1+1+1

for n = goal state

n3 (goal) = 0.