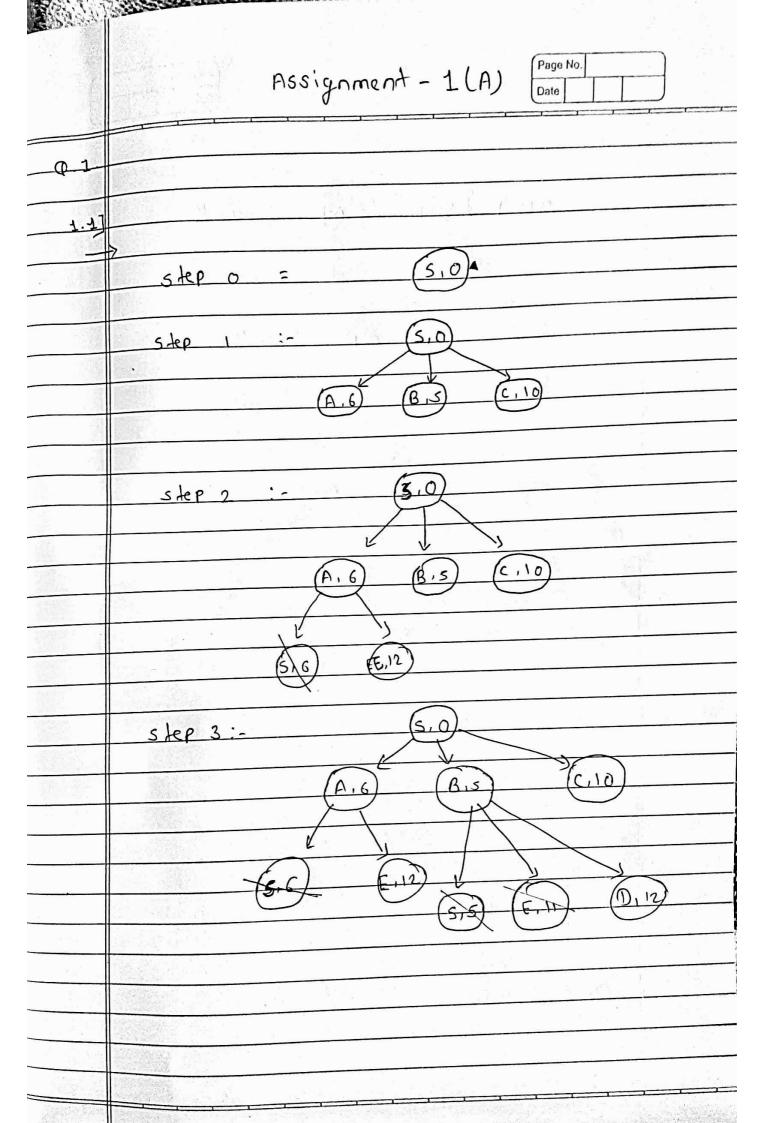
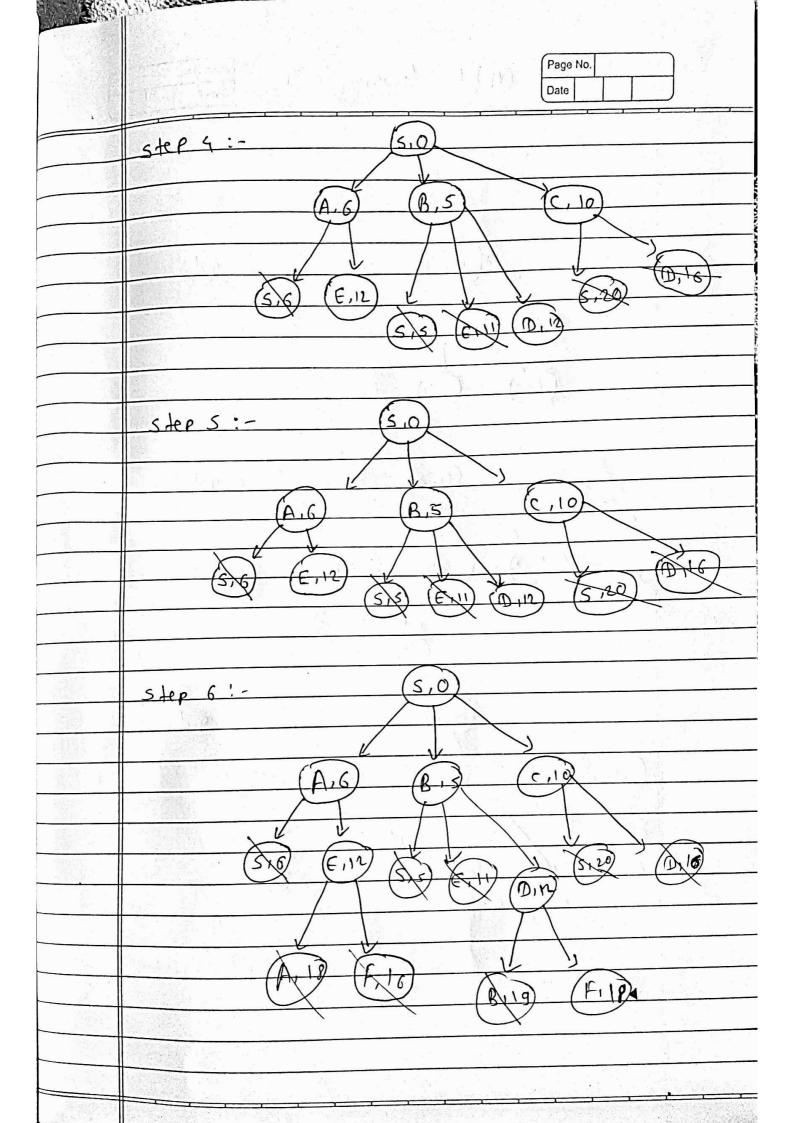
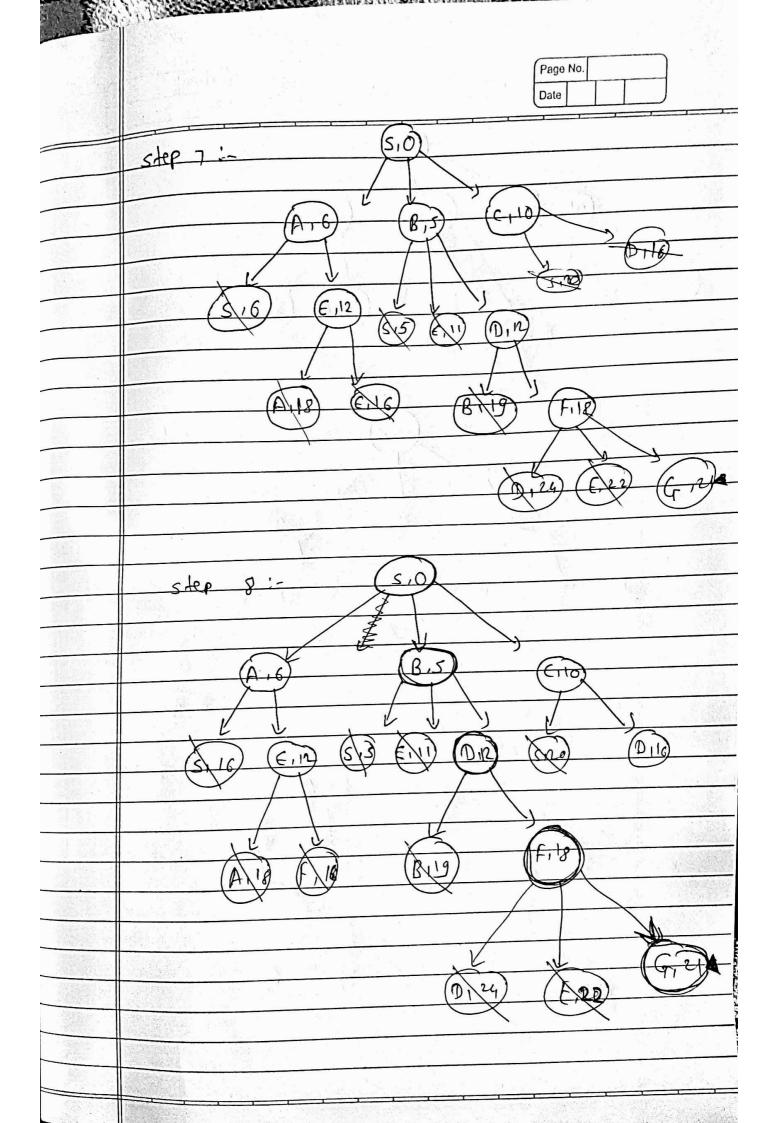
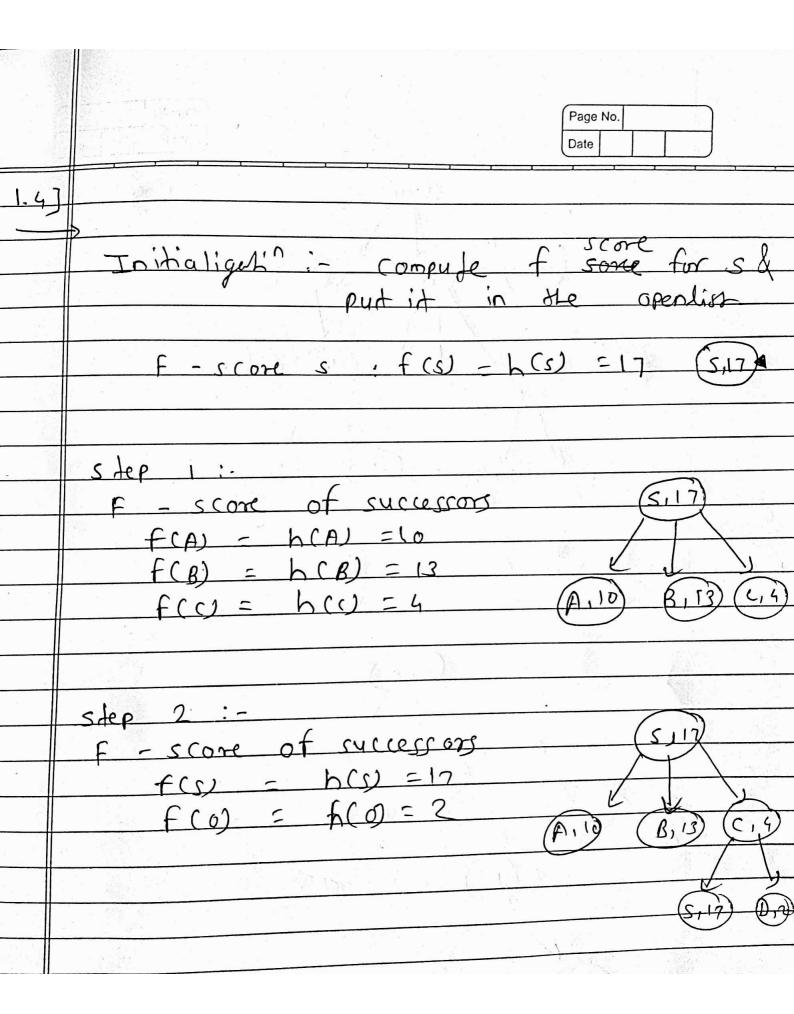
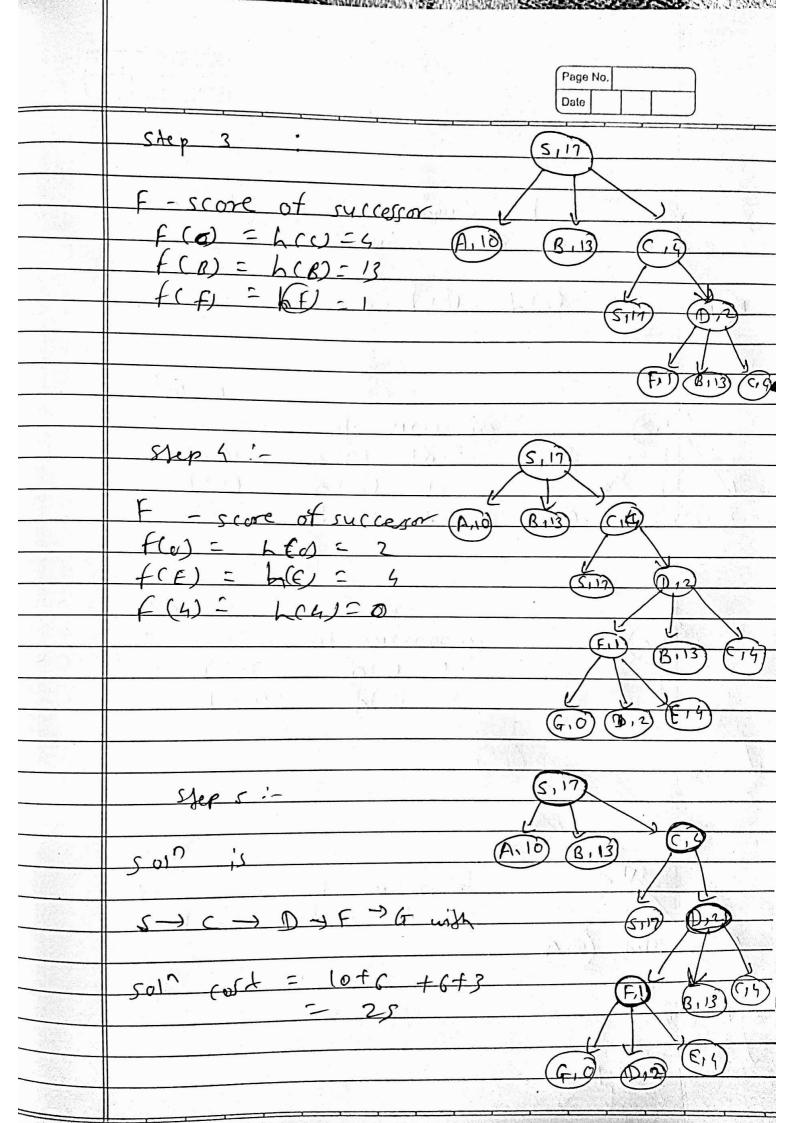
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02. Consider following instance of 8 py 226

		dimensión.				And the Control of th		
1	8	7	6			8	~~ <u>~</u>	-
,	2~	- 1	5-		2	. 1	C	
3	3	4_			3	4	5	
					7.3	100000		

Initial configuration Goal configuration

Consider Hueristic functions defined below.

h: - misplaced tiles count except space

b2: - Correctly placed tiles count except space

h3: - sum of manhalton distance bet current

and correct position of all kness except

Space.

Answer the following questions:

In the 8 puzzle problem we are connected with getting to goal configuration within least number of steps. All moves are thus equally costly. Define g(n) in you own worlds what will be the cost of 6 step sol to some arbitary 8 puzzle in stance?

The lowest path cost g(n) can be the cost to search the goal configuration in least steps. In our case, we can reach the final configuration in at least 4 moves:

UP, UP, LEFT, LEFT. Since all the moves

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are equally costly, we compare g(n) = 1+1+1+1 g(n) = 4

consider the following arbitary 8 puzzle instance which gives slowling in 6 steps.

0.00	8	7	6	6.3
	2	1	5	
	and the	3	4	

The SOIN COD be represented as:=

\[\frac{2}{2} \frac{8}{1.6}, \frac{1}{2} \cdot 1.5\frac{2}{2}, \frac{1}{2} \cdot 1.5\frac{2}{2} \cdot 1.5\

Drow exhastive state space tree of depth limited to 4 for instance of 8 puzzle problem in the question.

