## Assignment 1.A

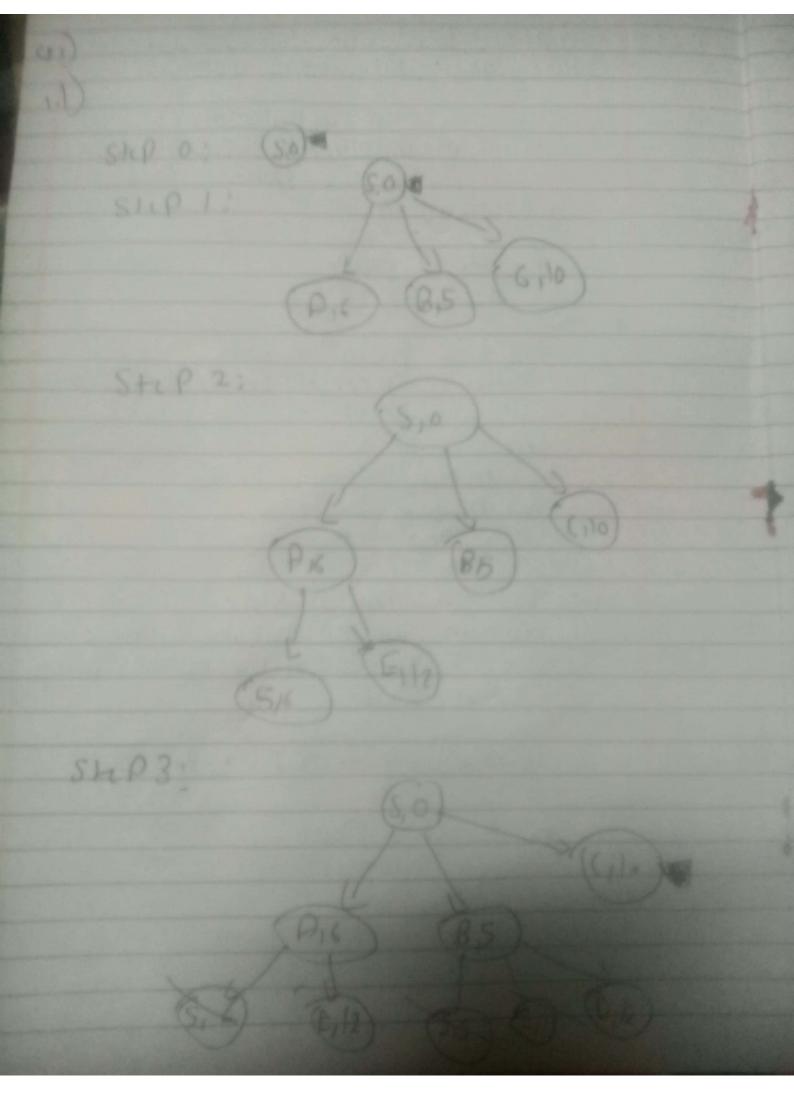
Name: Siddharth. s. soni

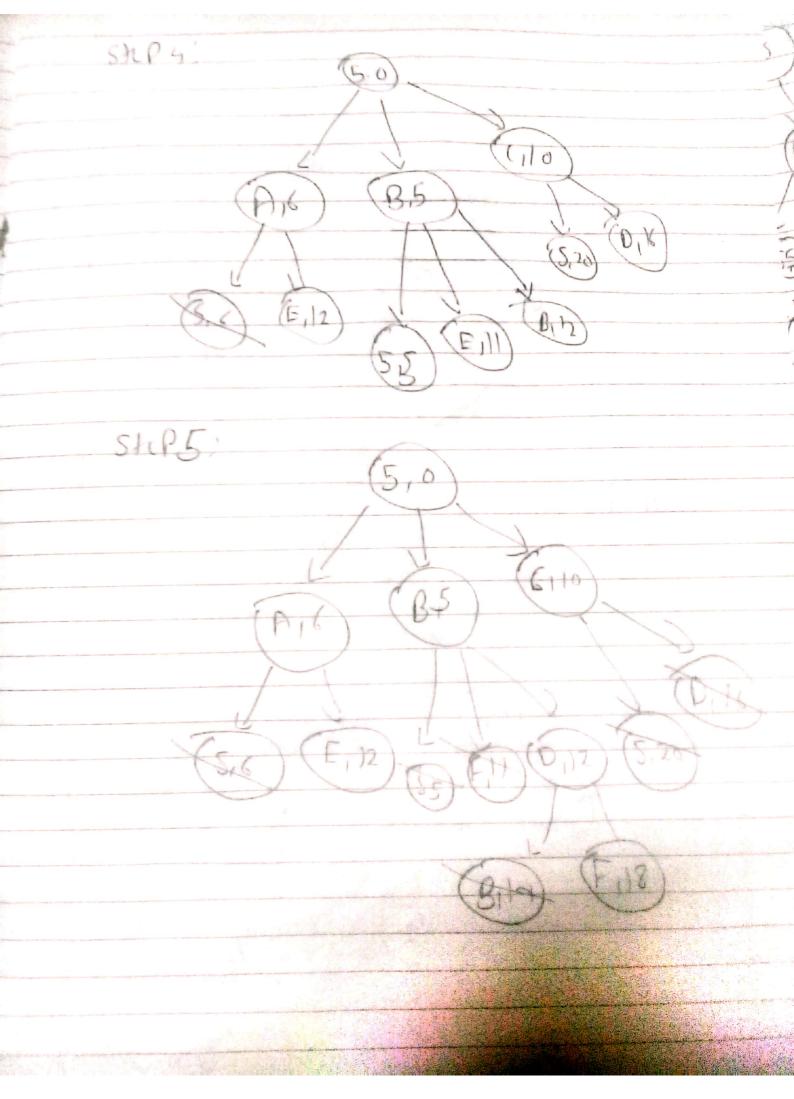
Std (boranch: B.E/T.T

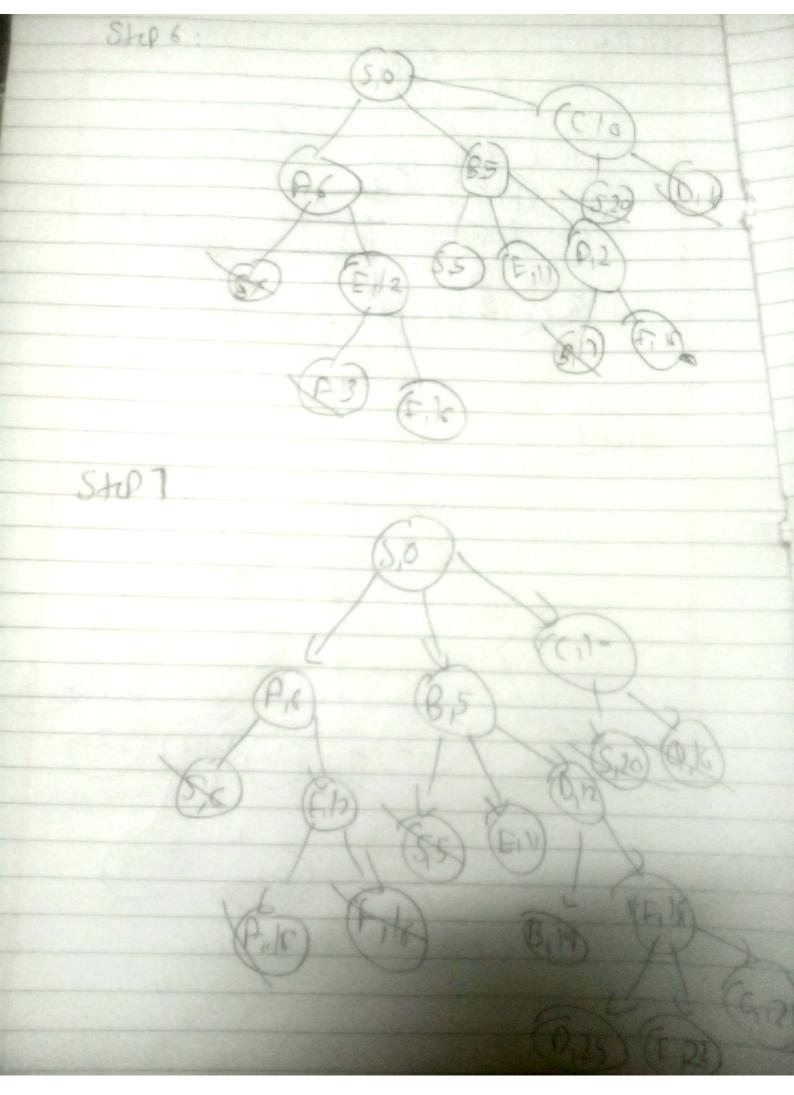
Rollno= 66

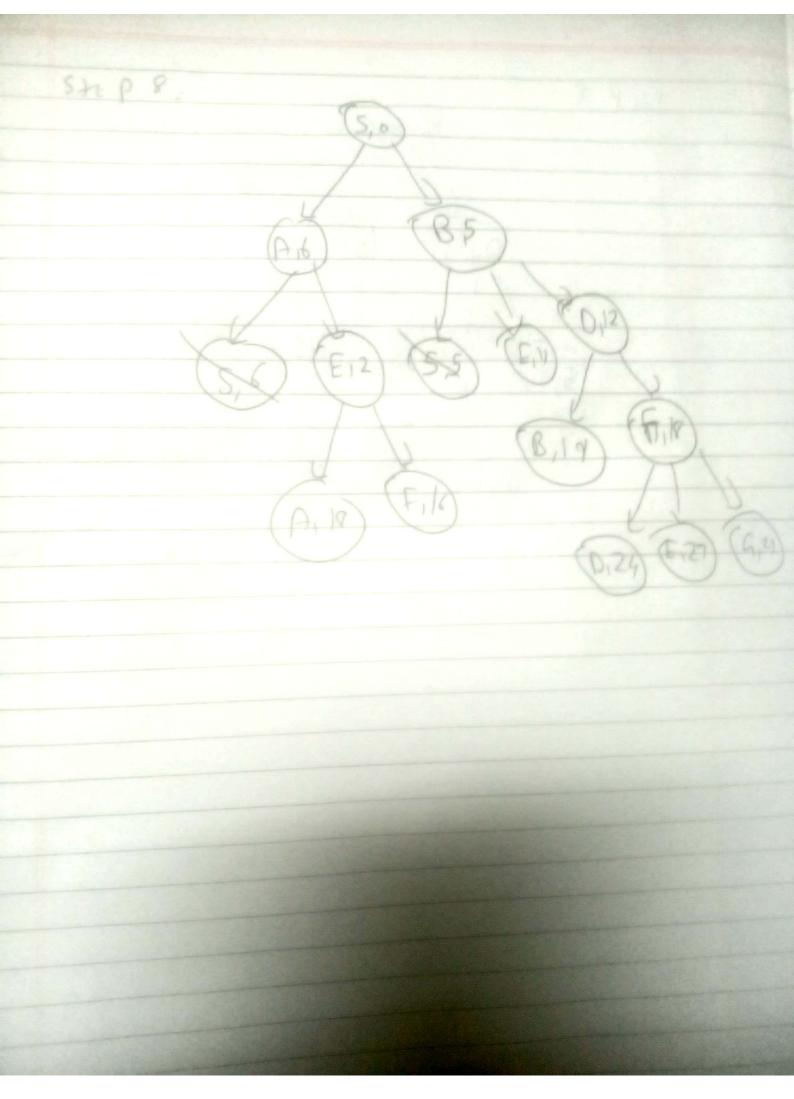
Batch: I3

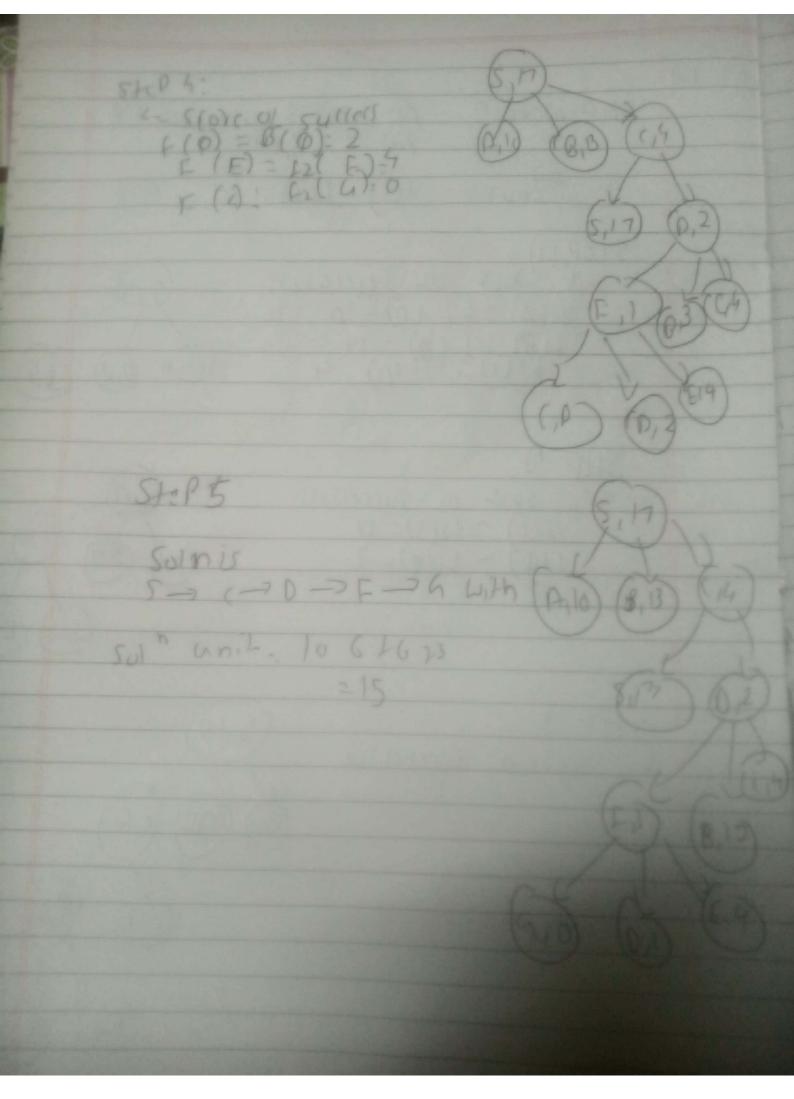
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Assignment 1 A 92) conside following instance of 8 Puzzle Problem Initial First configuration considered Heuristic functions bestdefind beld hi: misplaced files ourst except space h2 = correctly placed Ales lount excepts page 13 - Instance The lovest path (off of gen) (on & in teams steps in our cause each the fire (in) configuration is a least moves us uples, JEFT since an the move are equally be complete an g(n):4 Consider the following abitory & Puzzk instance glad solved in 85 6 steps The luchon com be

gred Dook exhaustive state space tree of Jeph imited to 4 for instance us & public & Problem on the question
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2 15 2 - 5 2 1 5 2 1 6 2 1 6 2 1 6 2 1 6 2 1 6 2 1
41
t Down
[8 - 7   8   7   6
3 4 5 3 4 5
3 3 5 5
LEET X L
3 4 5 3 1 3 1 1 2 1 5 1
Cincle Control of the

P2(0) state goal State from question for i = 1 A : initial state
fir (initial) = misplace hies count excer space hi (initial)=4 hk-goal style hil goal)=6 for i=2, n=initial state he (initial) = correctly replaced lives counc he (initial) = 4 to nagoal soute n2 (gog1) = 8 for i=3, hi= initial Star (087cf & correct Position of asime between Expert state h3 (initial) = 0 to 10 to 1) 717 too n= goal state h3 (go al) = 0