200 grant 1 (0)

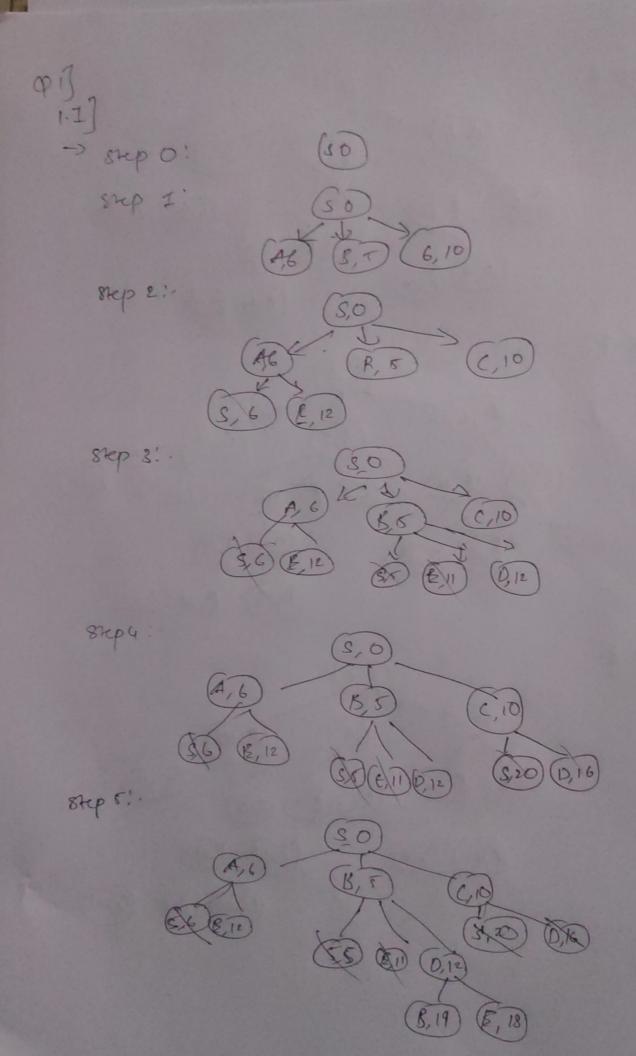
Name: Tuebox & Rhorale

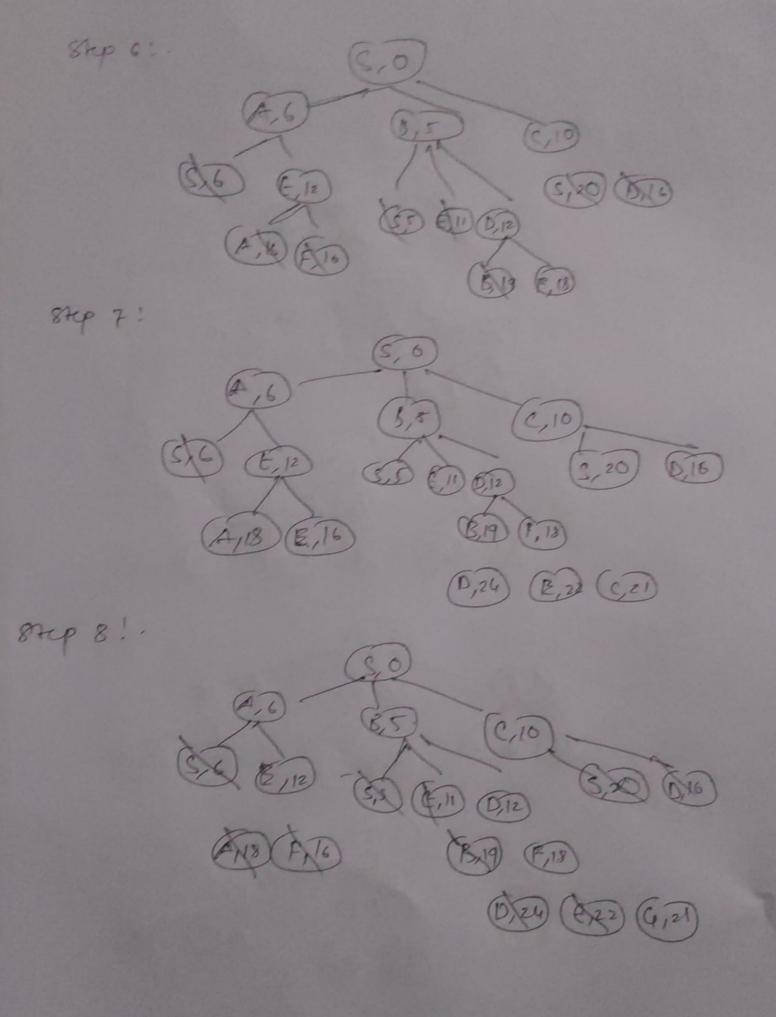
class : 88 24

Kull 1/4 - 10

Solyeck STLAS

COP DOA Remove Gen

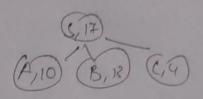




Inihalgath: compute of sure for 5 & put 94

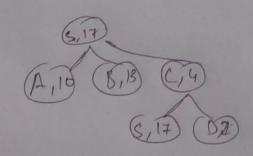
P-scure s: f(s)=h(s)=17

87ep 7: F - Score \$0 Successor P(A) = R(A) = 10 F(B) = f(B)=18' P(c) = f(c) = 4.

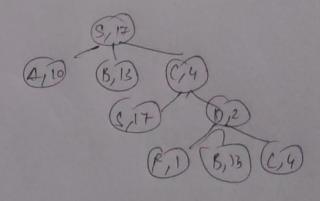


8tcp 2:

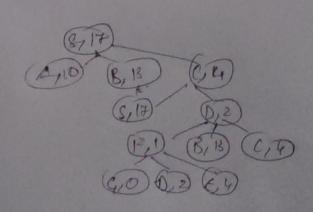
1e- Sure A of succences fes) 2 h (0) 2 17 400) = f(0)=2



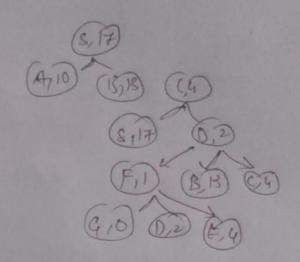
8tcp 3: R-Sure of successor f(c) = h(c) = 4 +(B) = L(B) = 13. flp) = h(p) = 1



8tep 4: 1º- sure of successor flo) = h(0) = 2 f(E)= f(E)=4 f(4)= K(4)=0.



8th is: 8-> c-> D>F=> 4 with 80th unt: 10+6+6+3 = 25



Q 2)

9)

The lower path cort G(h) can be the cort to reach the Goal configural." in lear 80cm.

For our case, we can meach the finial configurant in at last 4 moves. Up, up, LBFT, LEFT since. all moves are Equally costly we compute qui) as

acus: 1+1+1/

9(n)= 4

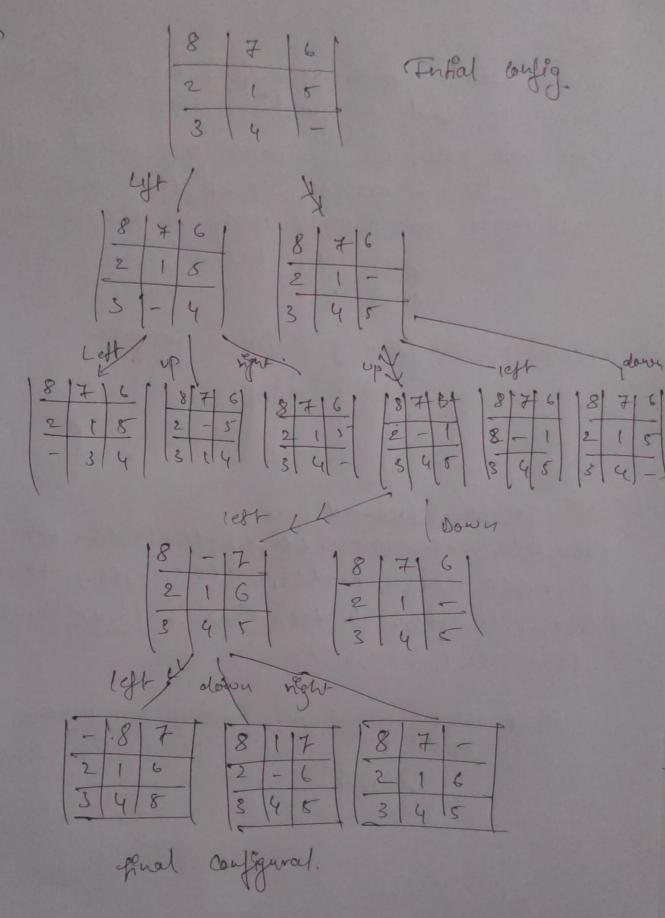
consider the following 8 puggle instance.

| 8 | 7 | 6 |
2 | 7 | 6 |
- | 3 | 4

Solt can be represented. as:

(18,7,6)(2,1,5) d-13,4) > ~ (18,7,6) d2,1,5), (3,-,4) <->
(18,7,6)(2,1,5) (3,4,-4 -> (18,7,6) (2,1,->,13,4,5) <->
(18,7,6)(2,1,5) (3,4,5) (-> (18,7,6) (2,1,->,13,4,5) <->
(18,7,-) (2,1,5) (3,4,5) (-> (18,7,4) (2,1,6) (2,1,5) (-> (18,7),6) (2,1,5) (-> (18,7),6) (2,1,6) (2,1,5) (-> (18,7),6) (2,1,6) (2,1,5) (-> (18,7),6) (2,1,6) (2,1,5) (-> (18,7),6) (2,1,6) (2,1,5) (-> (18,7),6) (2,1,6) (2,1,5) (-> (18,7),6) (2,1,6) (2,1,5) (-> (18,7),6) (2,1,6) (2,1,5) (-> (18,7),6) (2,1,6) (2,1,5) (-> (18,7),6) (2,1,6) (2,1,5) (-> (18,7),6) (2,1,6) (2,1,5) (-> (18,7),6) (2,1,6) (2,1,5) (-> (18,7),6) (2,1,6) (2,1,6) (2,1,5) (-> (18,7),6) (2,1,6) (2,1,5) (-> (18,7),6) (2,1,6) (2,1,5) (-> (18,7),6) (2,1,6) (2,1,6) (2,1,5) (-> (18,7),6) (2,1,6) (2,1,5) (-> (18,7),6) (2,1,6) (2,1,6) (2,1,5) (-> (18,7),6) (2,1,6) (2,

some all the mous are Equally cortry me cort would be. c).



2)

for i=1 n=instial state.

h + (frital) = Msphaced tikes count except spay

n 2 (inivial) = 4.

ne Goal State

For i=2, n= Purified state.

n+ (mitial) = currently Explaned little went Except

spay

**2 (Purified) = 4.

n = Goal State he(Goal) 20.

Por 1=2, n= 9 who 1 state.

h2 ("nitred) = tricumetty Explaned lites court Expect

hz (?nitral) = 4

For an = Goal State

hz (Goal) = 8

Ror i 23, n 2 initial state ns(initial) = sum of manhatter dist between currenle current position of all titles. Except space ns (Putral) = 0+0+0+0+1+1+1+1

For his equal stark hs (goal) - o.