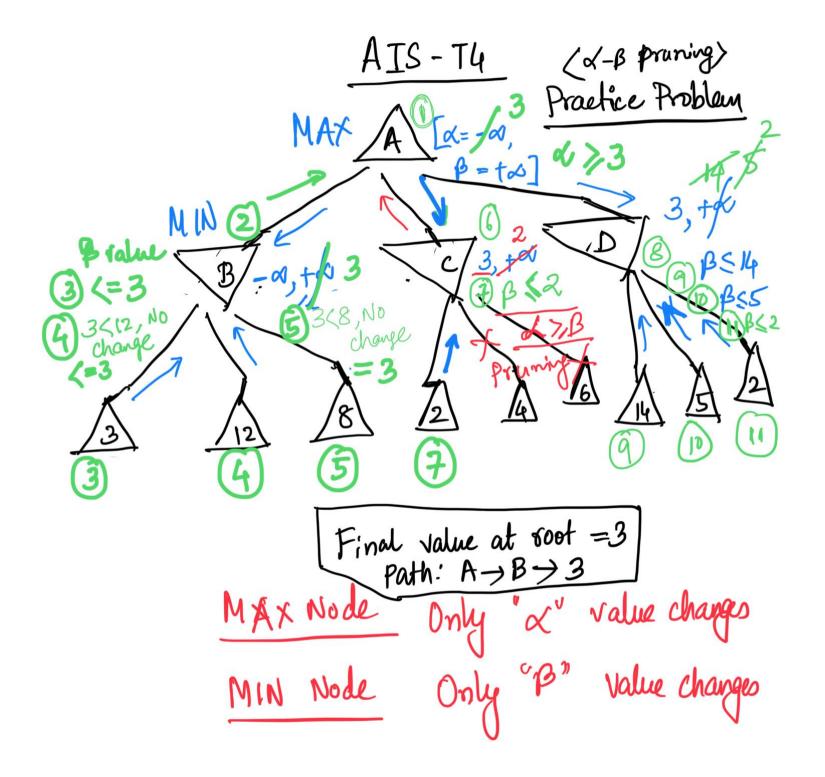
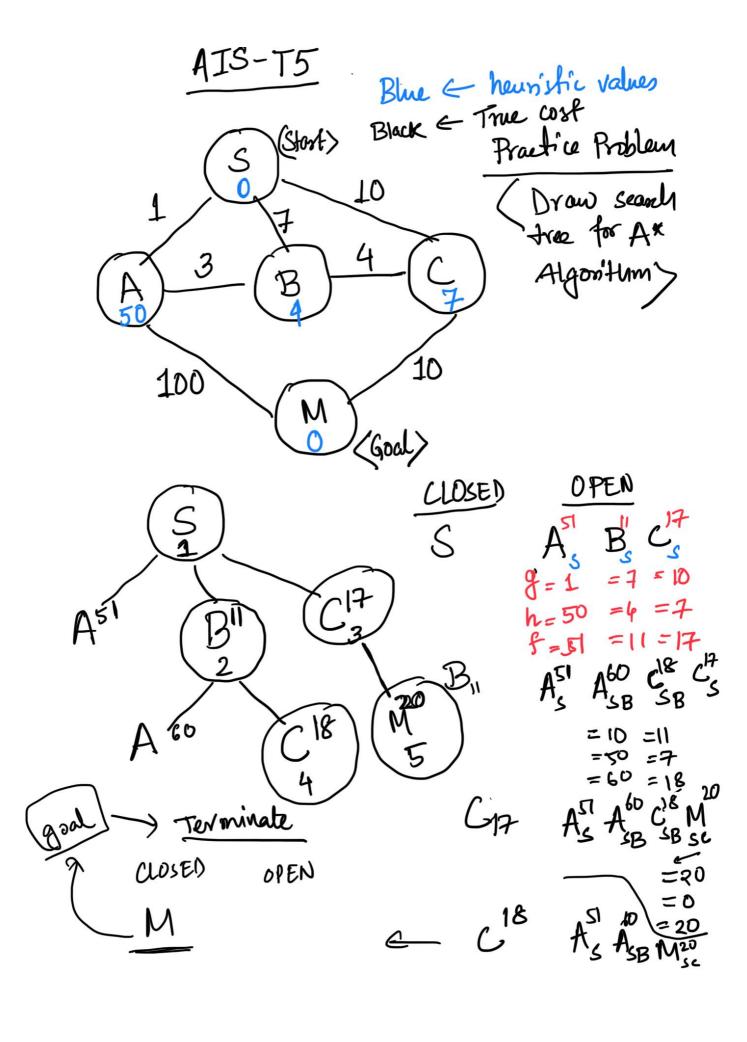
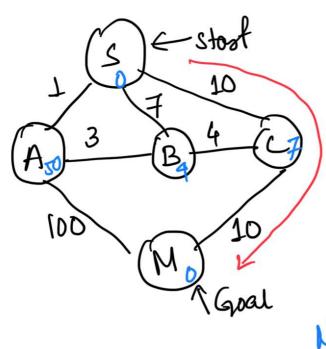


In the similar way, we can draw the complete game tree.





## AIS-T6



A\* algorithm
returned Path

S -> C -> M

Total cost: 10+10=20

Is this offimal Path ?

No, We have better Coof S - A 3 B 4 LOM

Find out whether houristic Total cost 1+3+4+10=18
Score of 'A', is consistent or Not?

No, we know I h (n) < h (n') + lost (n, m)

n's hunistic for all child n' of n

will be n is maintained for mode n

Consistent if  $h(A) \leq Cost(A,B) + h(B)$ Here,  $50 \leq 3+4 = \frac{Not True}{50}$ So, A's heuristic is not consistent.

## (cond.)

How to make A's howristic consistent?

How to make 
$$1$$
?

Sidn:  $\frac{3}{4}$   $\frac{3}{5}$   $\frac{3}{5}$ 
 $h(A) \leq 3+4$ 
 $\leq 7$ 
 $h(A) \leq 1+0$ 
 $\leq 1$ 
 $\leq$