

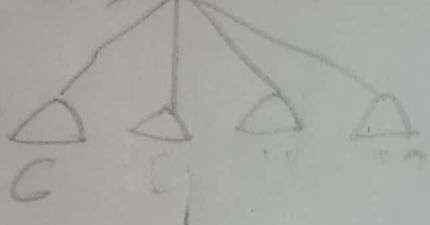
Ans to the question no-1

1st

MAX

$$[-\alpha, +\alpha] \Delta 6$$

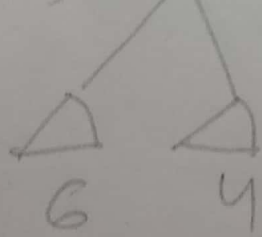
$$\min[-\alpha, 6] \leq 6$$



2nd:

$$[-\alpha, +\alpha] \Delta 6$$

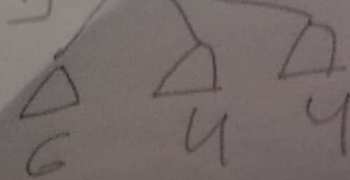
$$[-\alpha, 6] \Delta \leq 4$$



3rd:

$$[-\alpha, +\alpha] \Delta 4$$

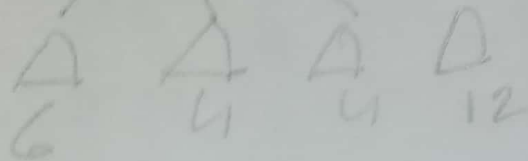
$$[-\alpha, 4] \Delta \leq 4$$



4th:

$$[-4, +\infty] \Delta 47$$

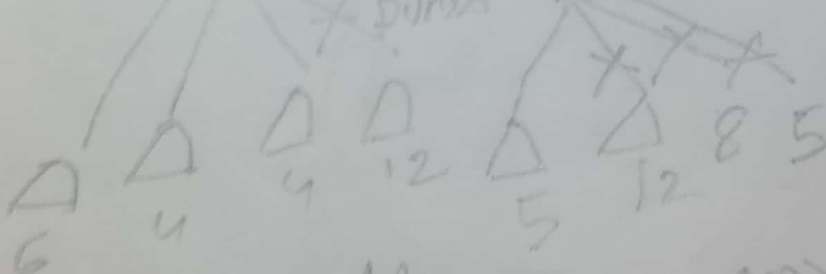
$$[-4, 4] \Delta \leq 4 \text{ pruned}$$



5th:

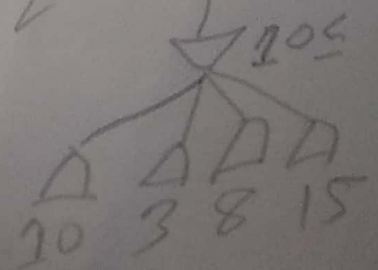
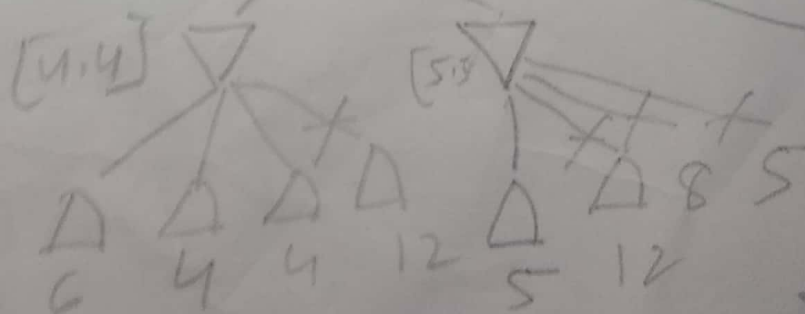
$$[-5, +\infty] \Delta 4857$$

$$[4, 4] \Delta \leq 4 \text{ pruned} \quad [5, 5] \Delta \leq 5$$

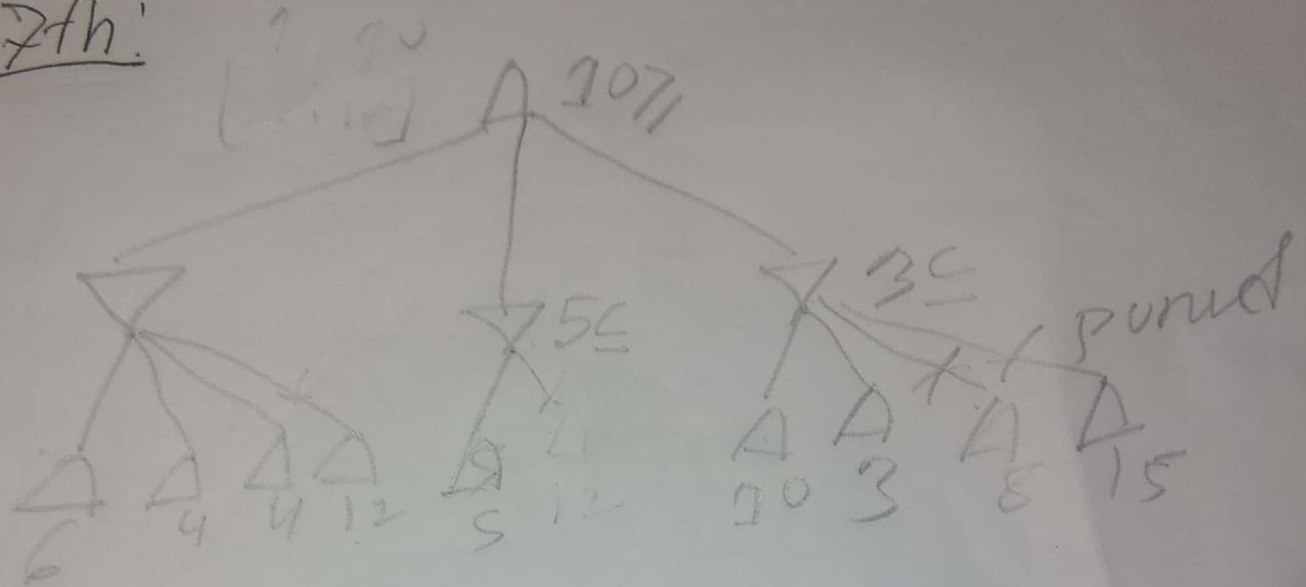


6th:

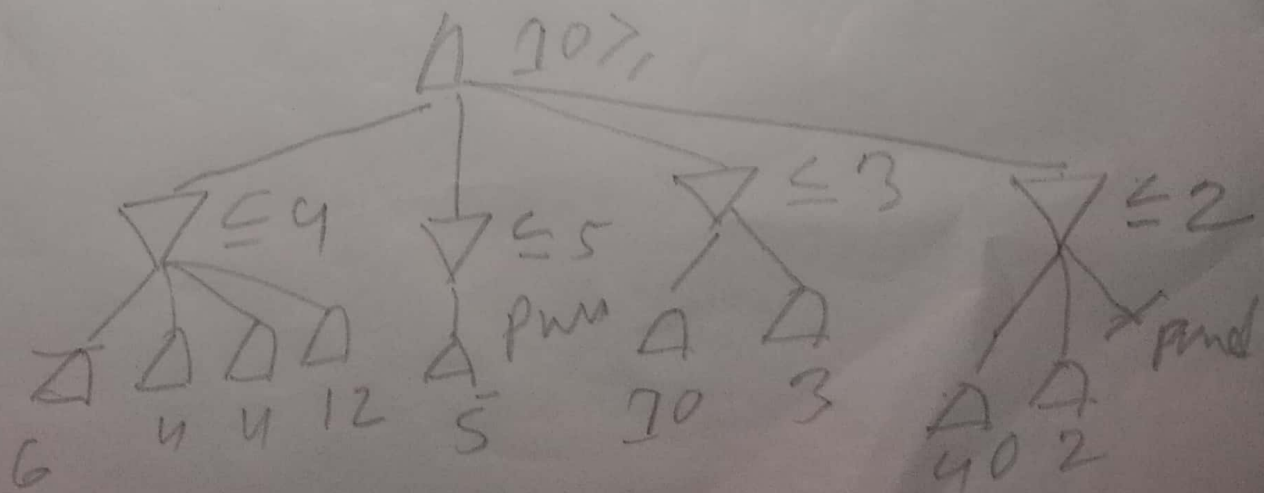
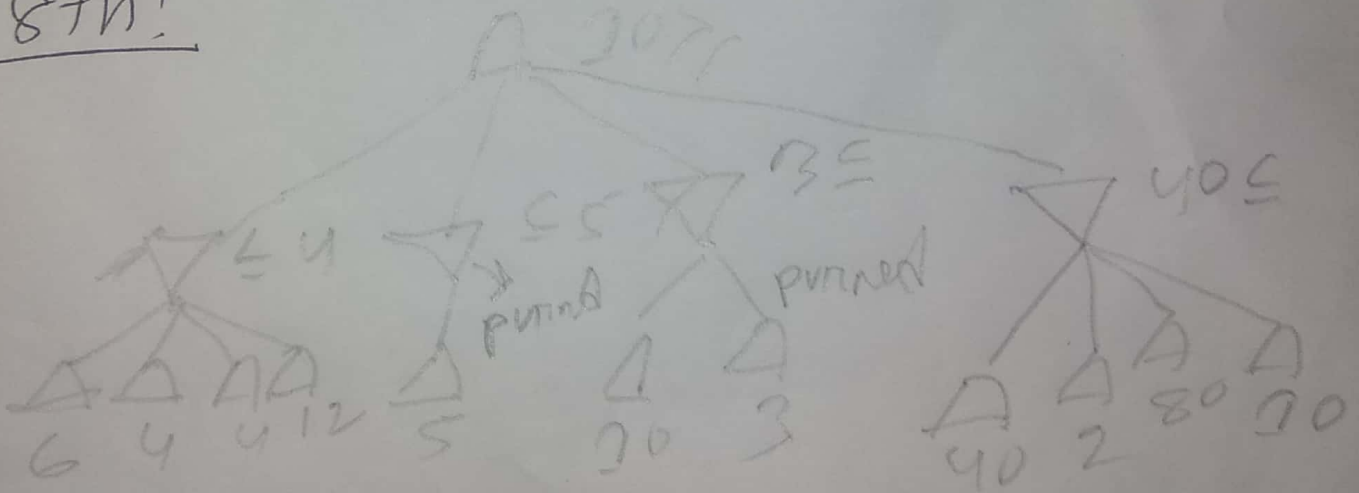
$$[-5, +\infty] \Delta 107, 107$$



7th:

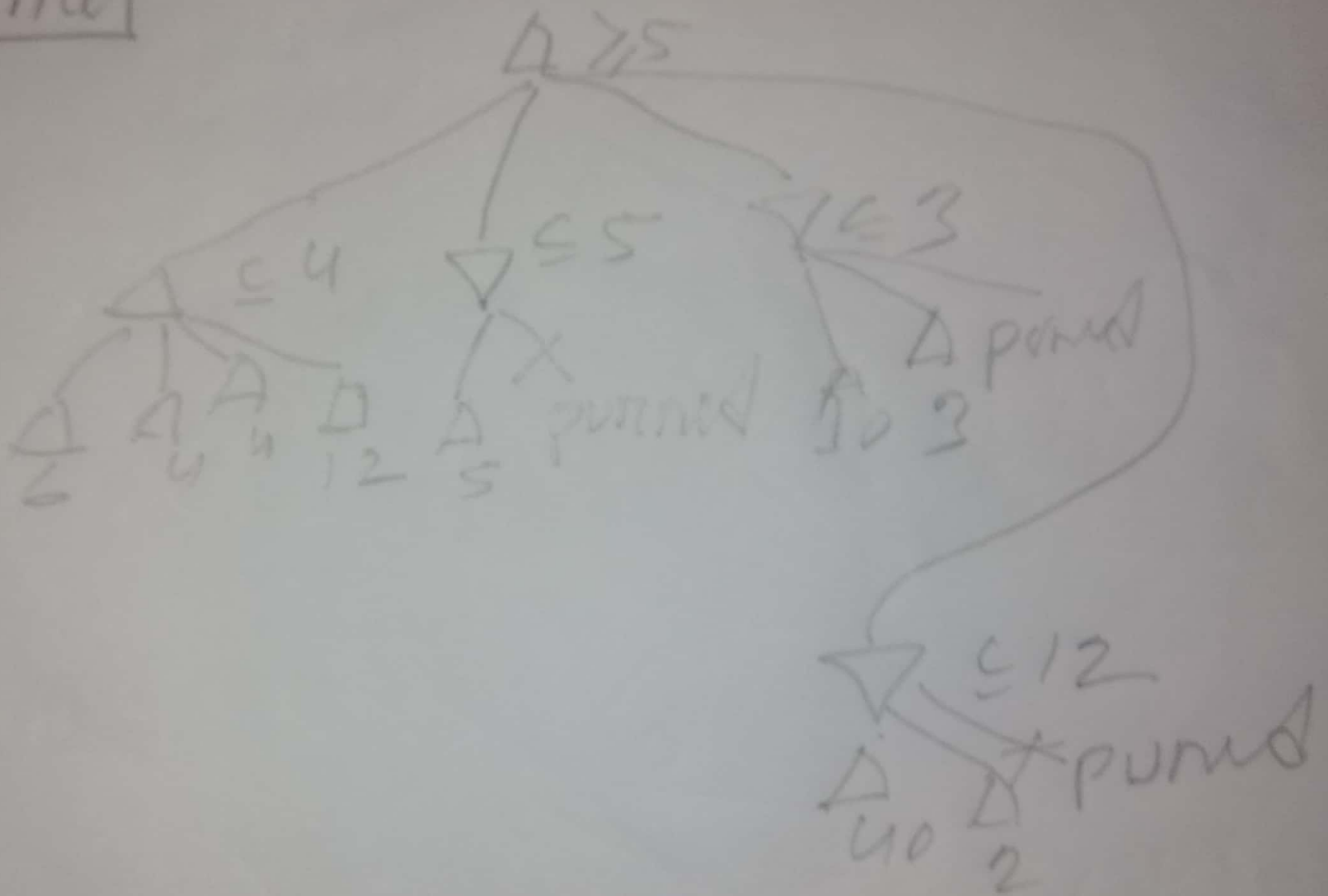


8th:

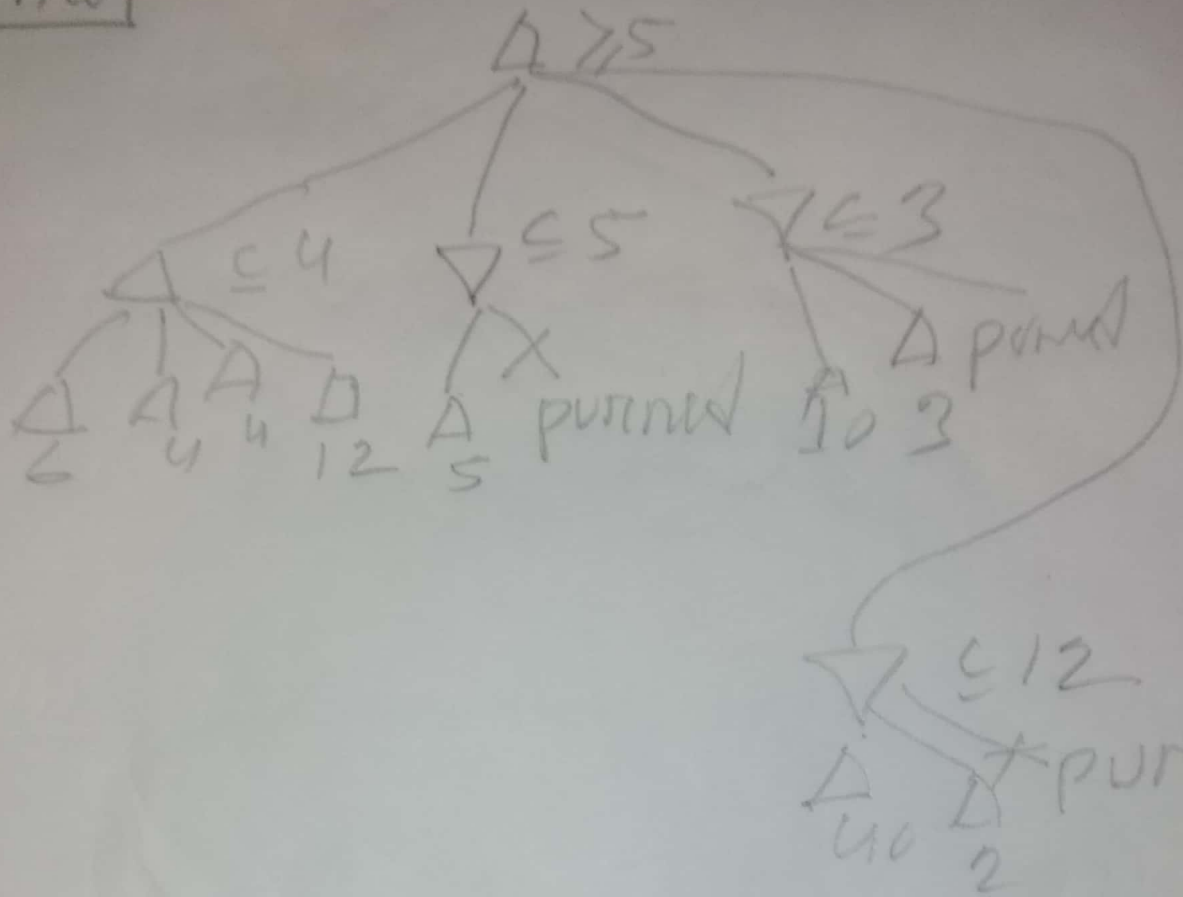


r-4

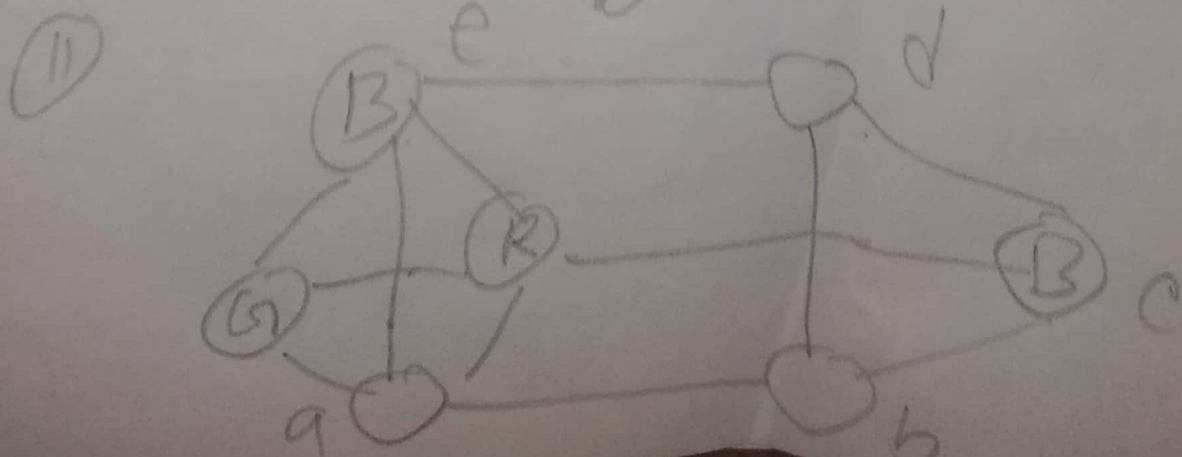
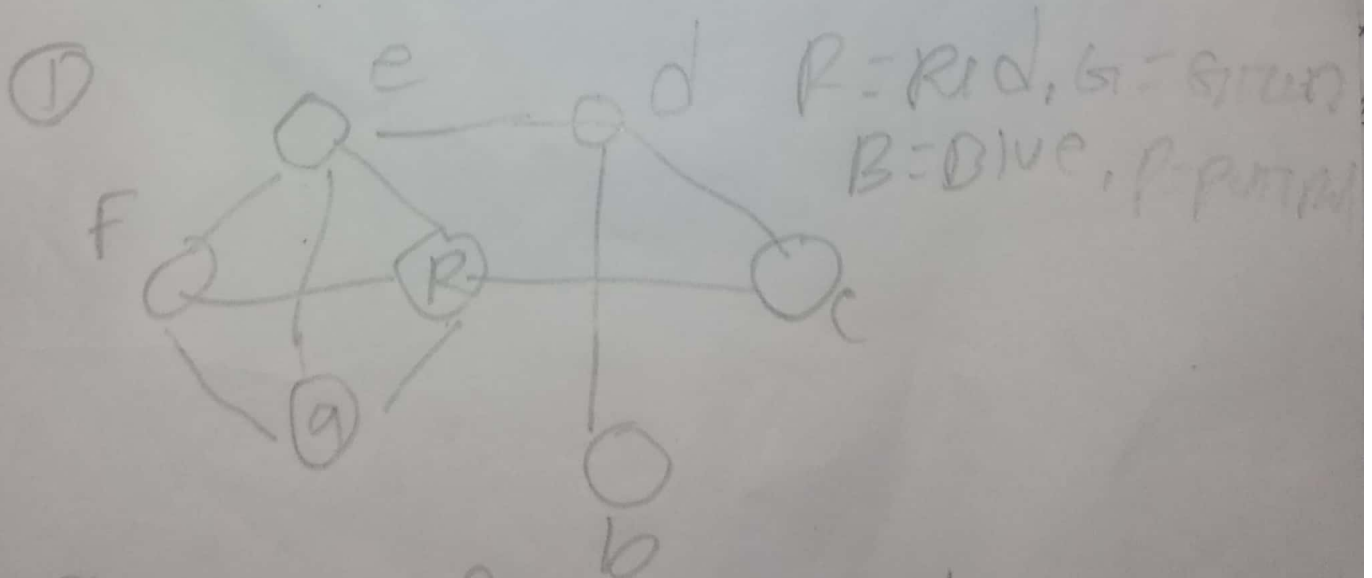
Final



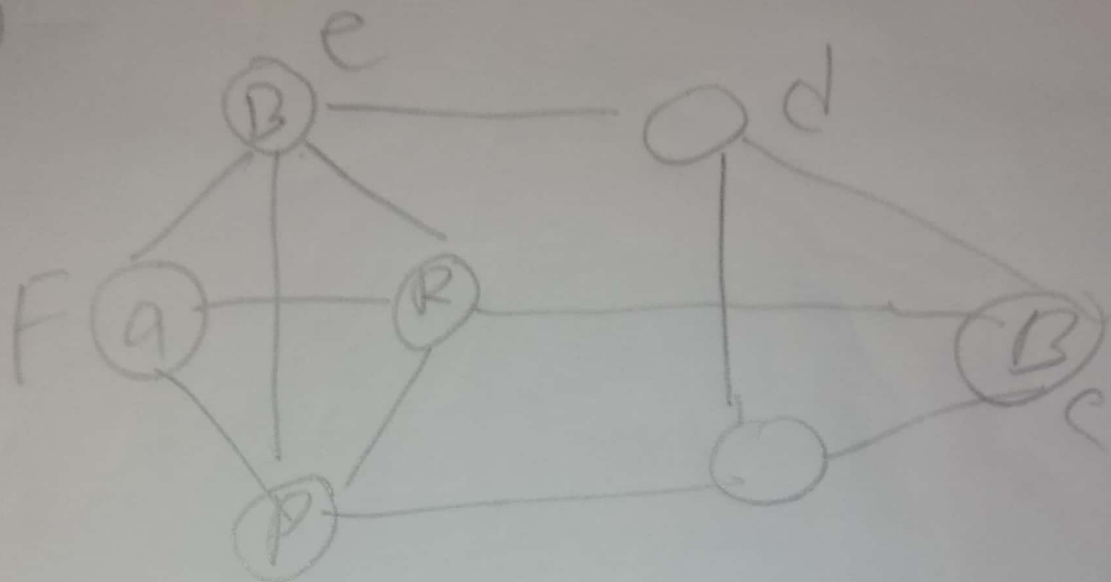
Final



Ans: 2!



(III)



(IV)

