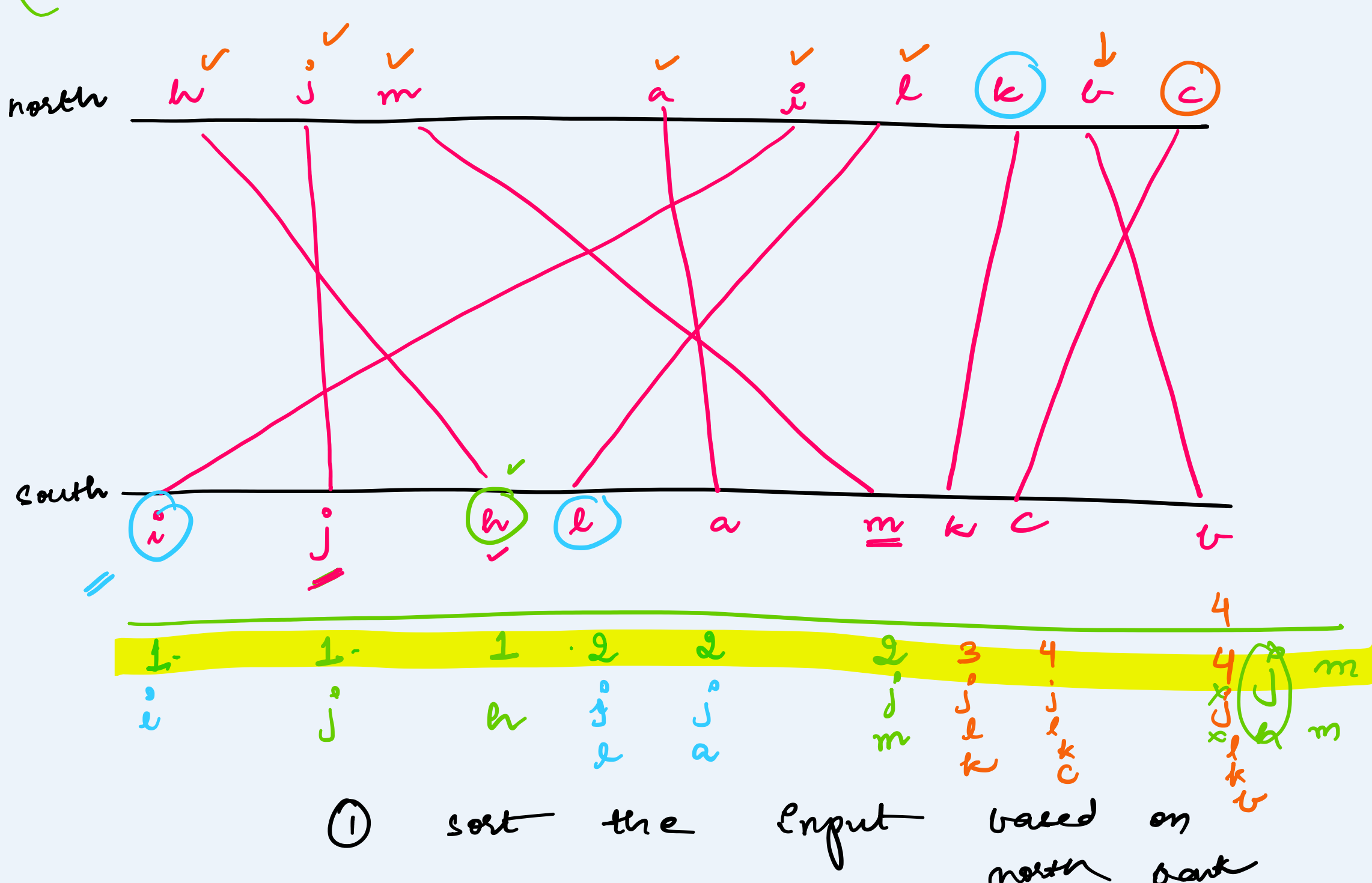
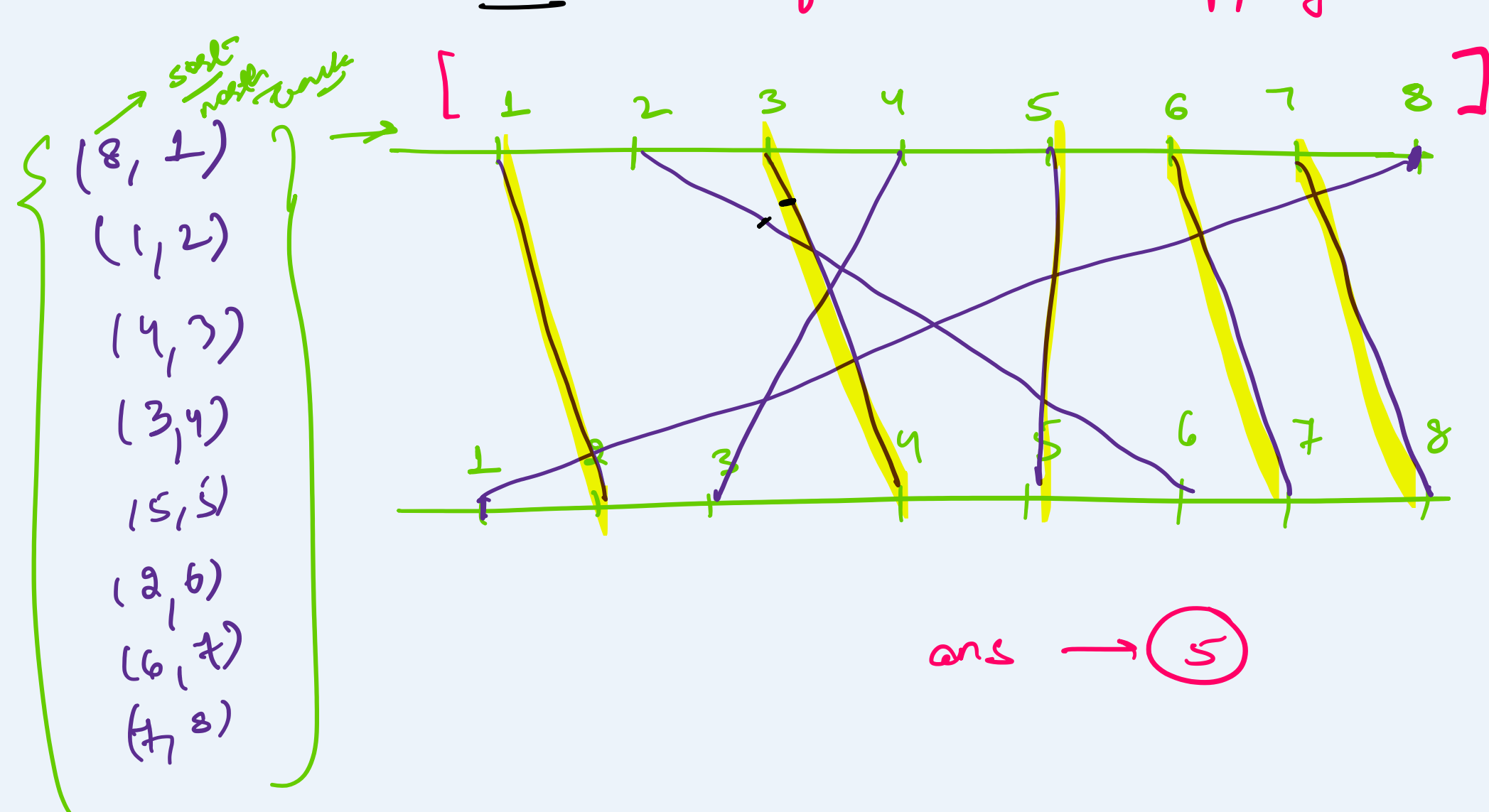


Q Maximum non-overlapping bridges

⑦ \rightarrow no. of bridges in a river

n pairs \rightarrow north bank & south bank coordinates of bridge

Find max no. of non-overlapping bridges.

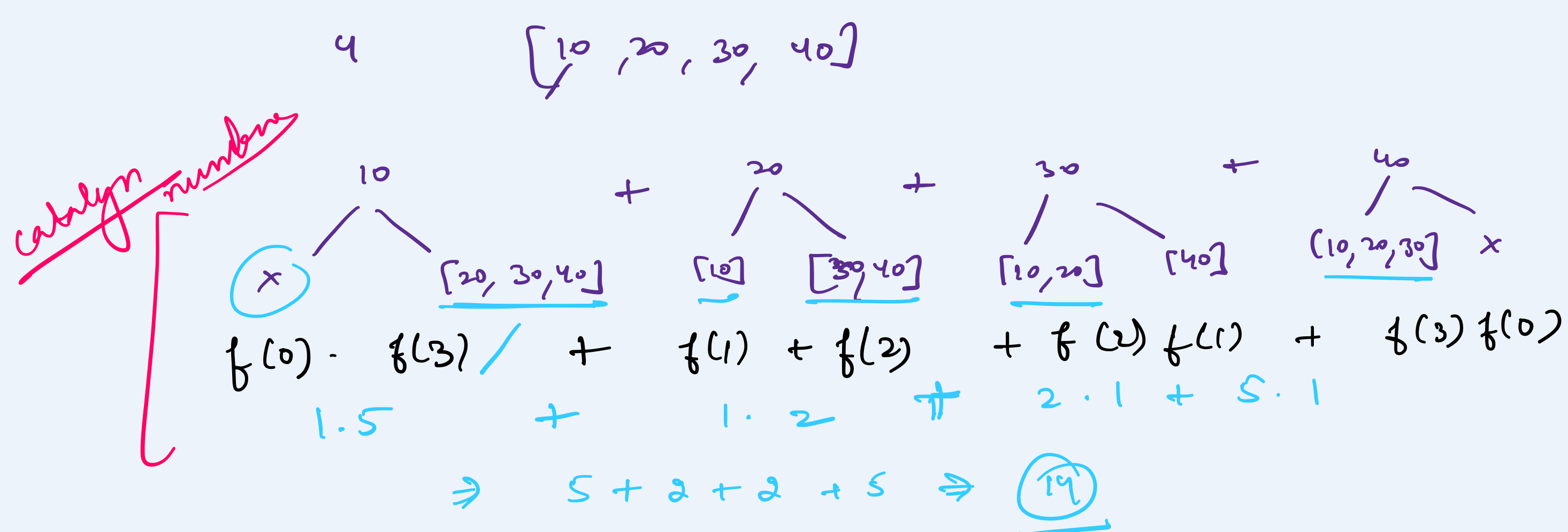
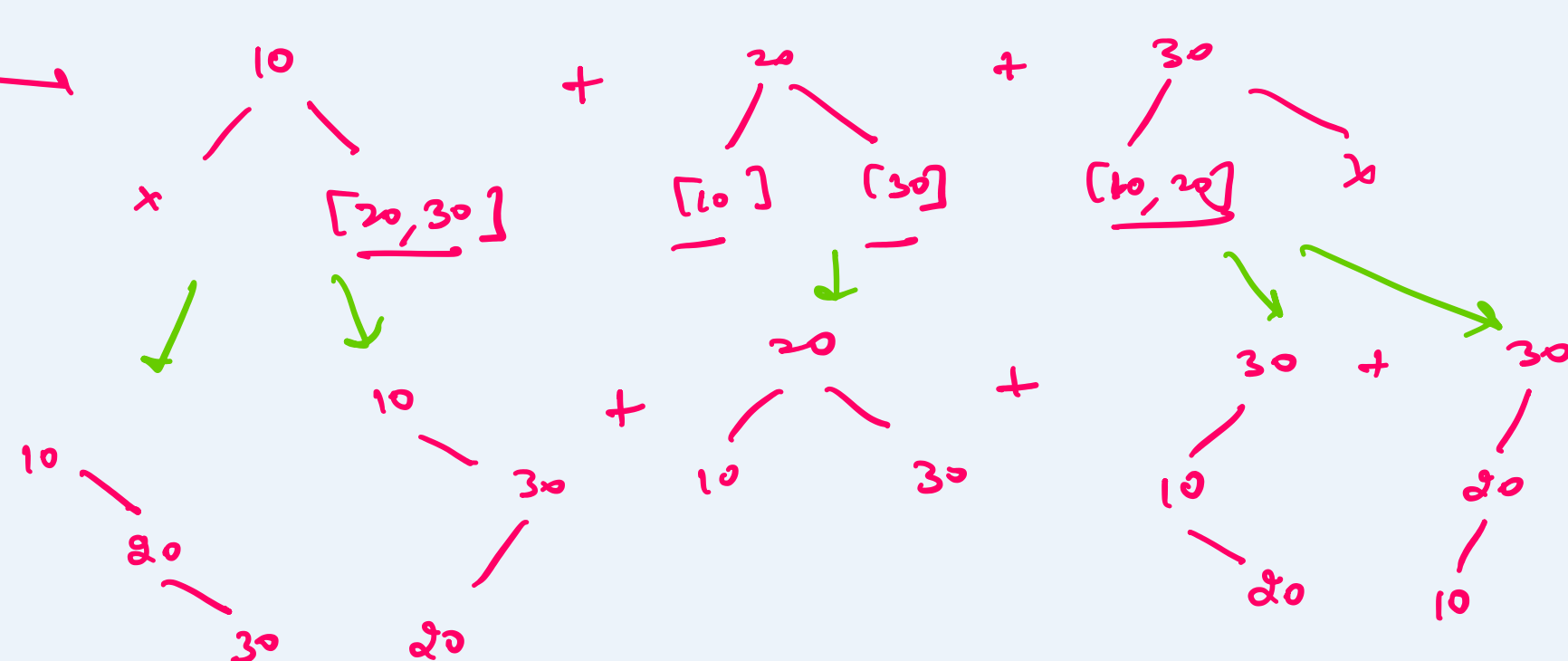
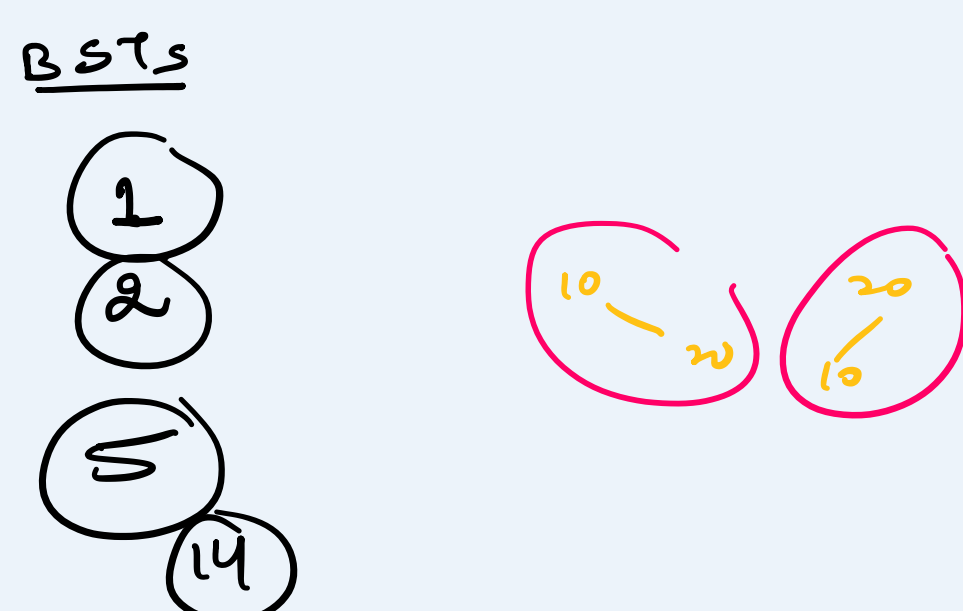
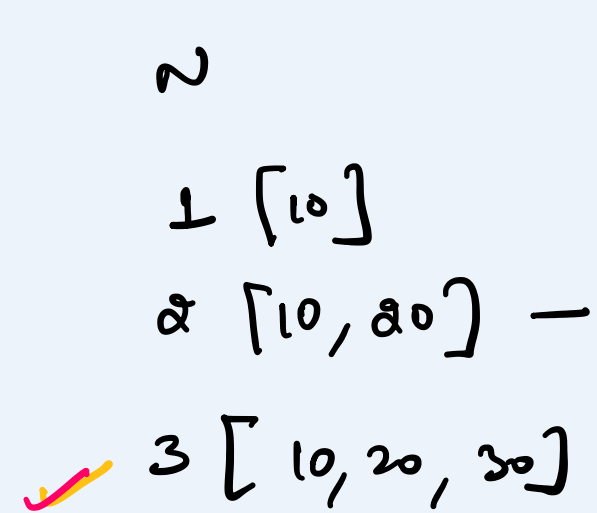
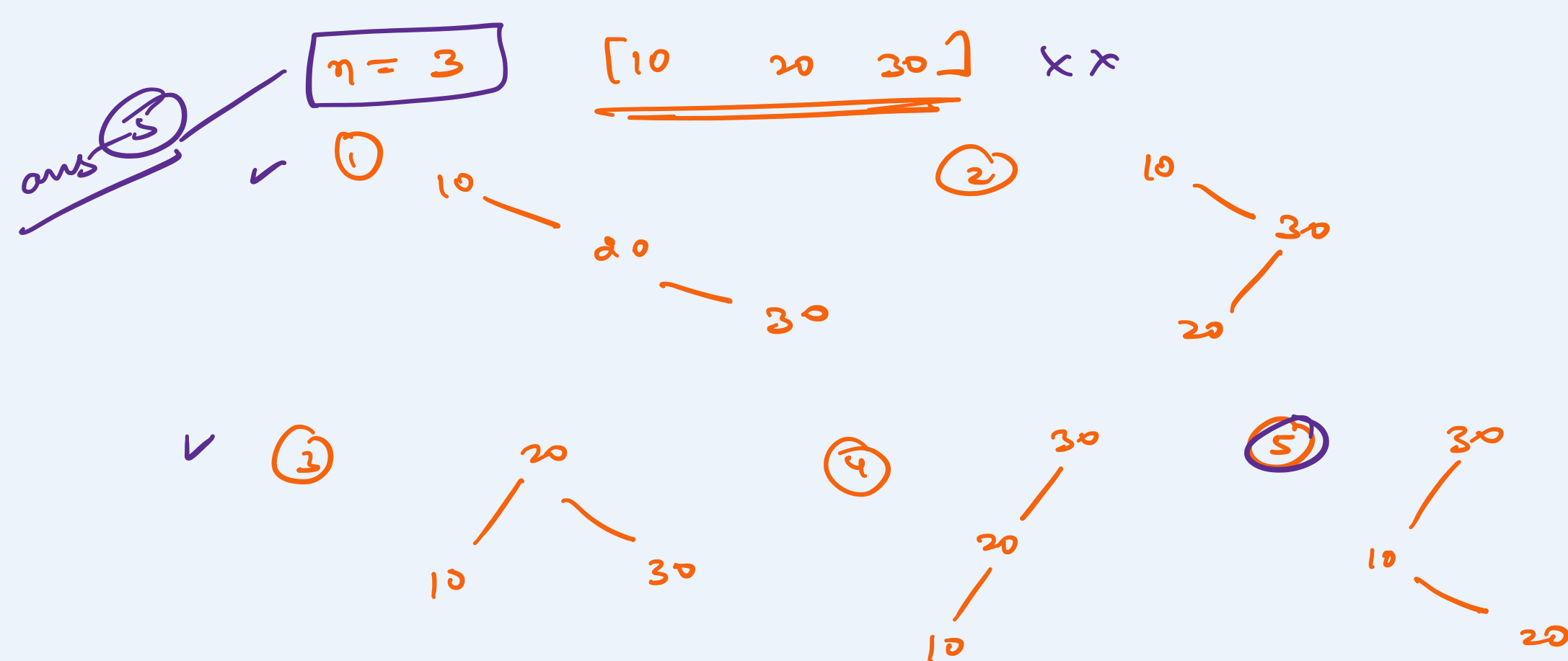


① sort the input based on north-south

Q/ Count no. of BST

$(n) \rightarrow$ no. of ele.

find the no. of BST you can create using these elements.



Q Perfect squares

$$n = 9 \quad 3^2 \rightarrow (1)$$
$$10 = 1^2 + 3^2 \quad [2]$$

min no. of squares that sum to x .

$$7 = 1^2 + 1^2 + 1^2 + 2^2 \quad [4]$$
$$11 = 3^2 + 1^2 + 1^2 \quad [3]$$
1
1
1

0	1	2	3	1	2	3	4	2	1	2	3
0	1 1 ²	2 1 ² 1 ²	3 1 ² 1 ² 1 ²	4 2 ²	5 1 ² 2 ²	6 1 ² 1 ²	7 2 ² 1 ² 1 ²	8 2 ² 2 ²	9 3 ²	10 1 ² 3 ²	11 3 ² 1 ² 1 ²