Thursday, 15 July 2021

7:12 PM

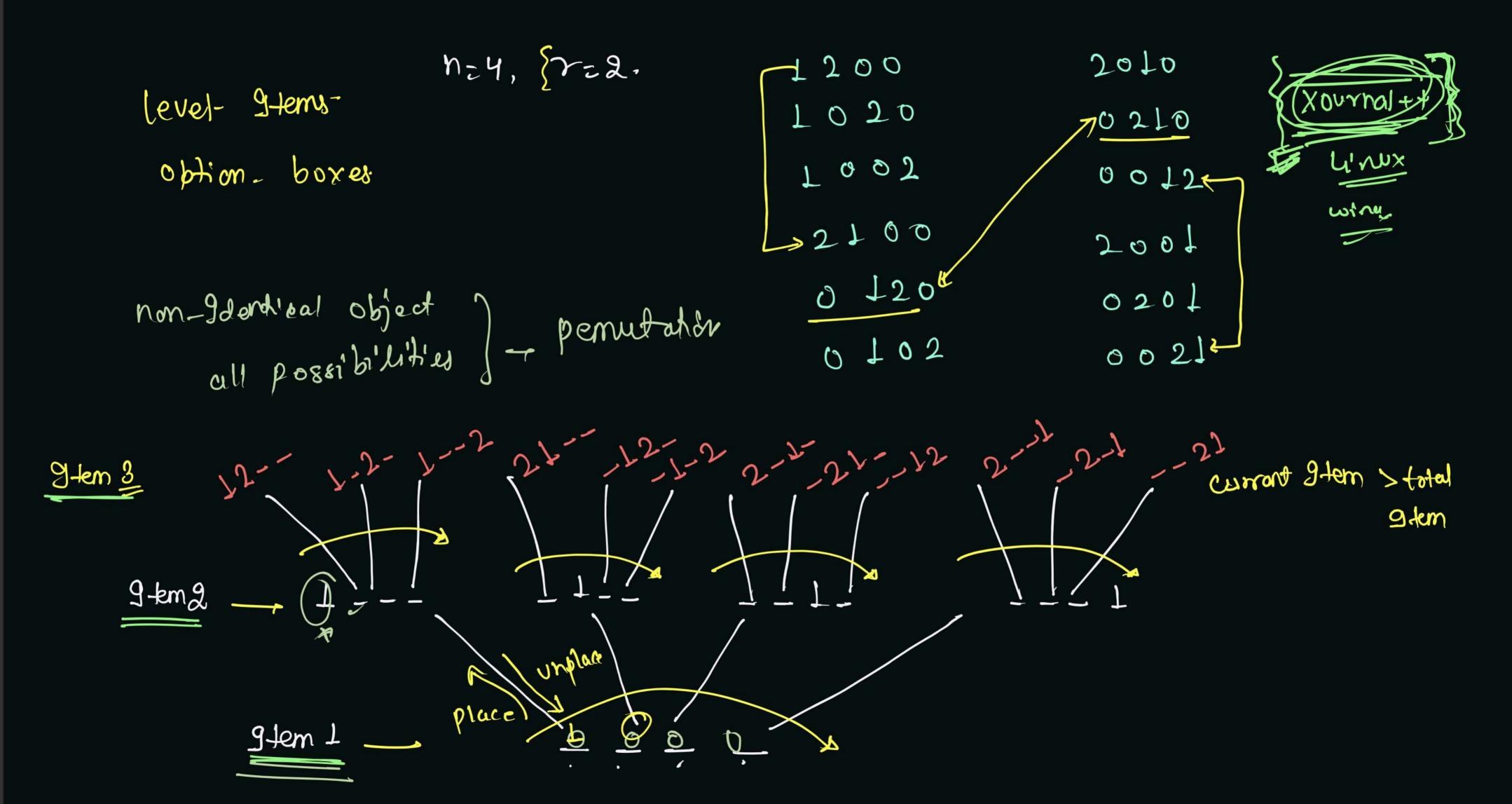
n-box,

7-9 terrs (non 9 dentica), print all possible

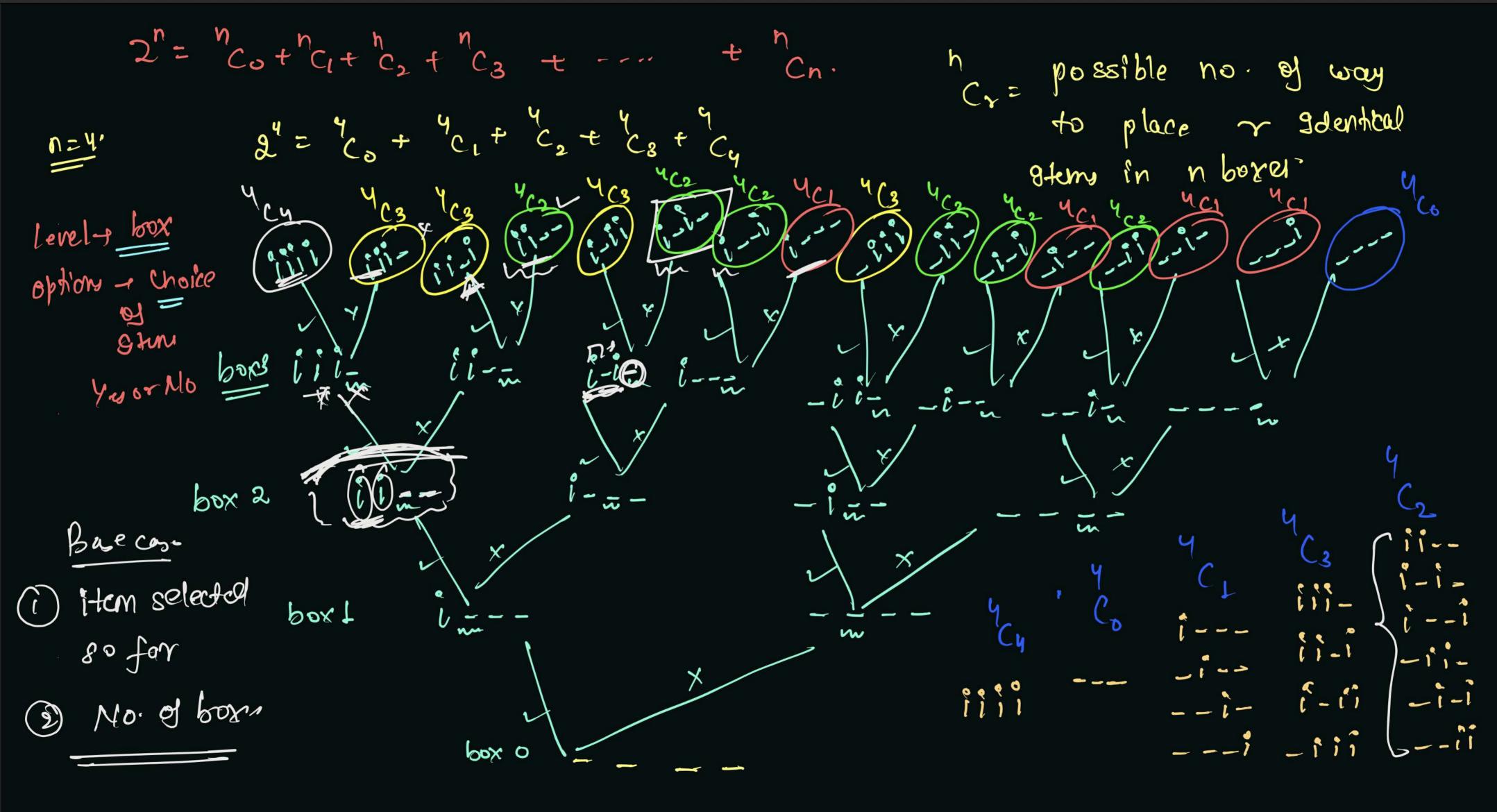
print all possible

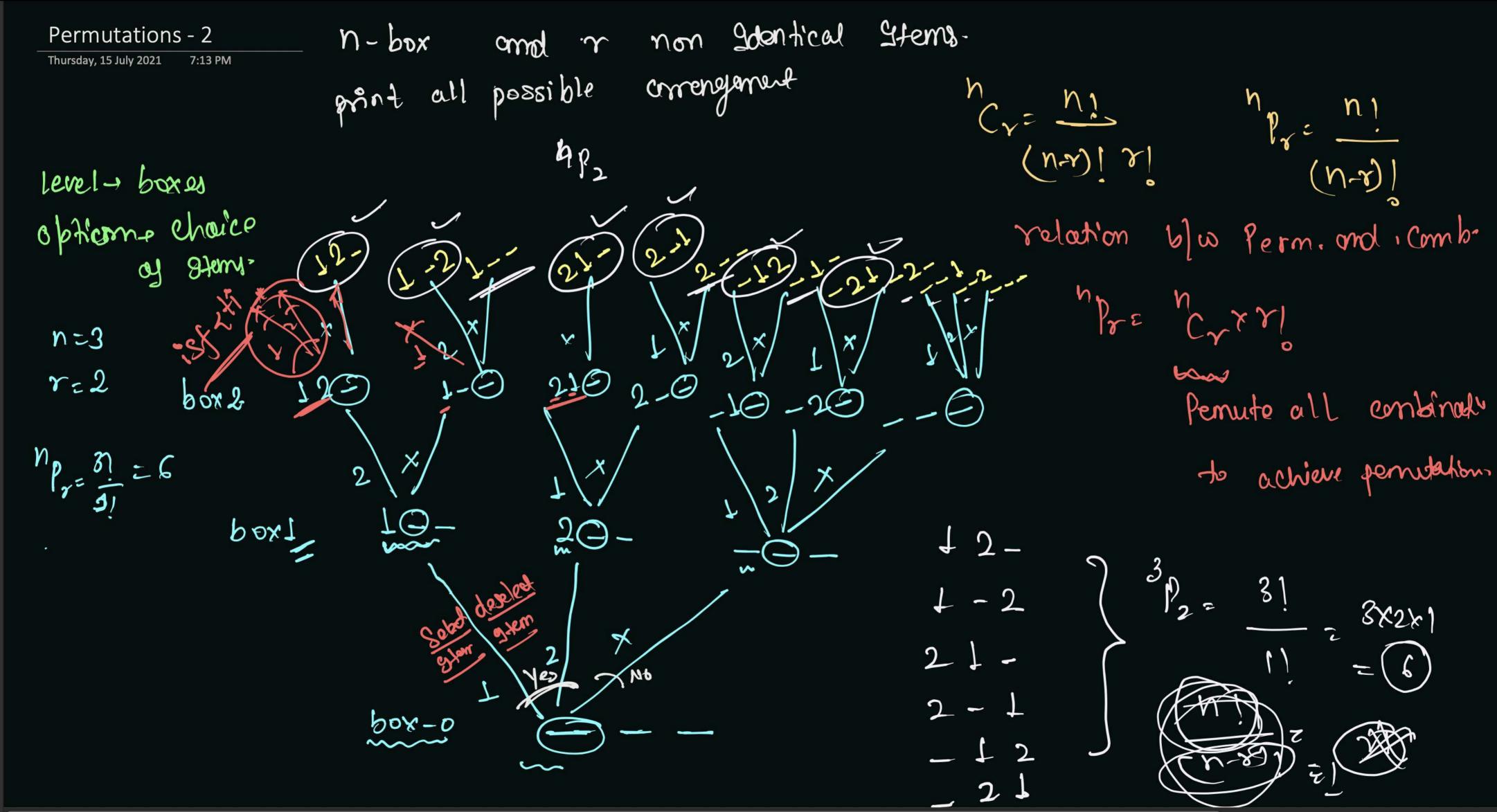
le vel- glems'
option, boxes.

$$h_{r} = \frac{h!}{(n-r)!} = \frac{(n-s)(n-1)(h-2) - - ...(h-(r-1))}{(n-r)!}$$



```
m gaentical gterns, print all possibilities
Combinations - 1
                    n= boxes,
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                                                 in n boxa.
                                  or Genny
                  to arrange
                                                  ~=2 (9+emu)
 Level- places
                                   n=boxe= 4,
 options- choice of gtems.
                                  5
                                   Cr=
                                                                    2121
                                          (n-r)) ?
                                                             combinations
               permental'ons
                           penuted
        0
          O
                              S
```





n-boxes, r. Identical Itemy, point all possibilities. to arrange them

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permutation

120xel = 3, 9-tem = 2

 $np_2 = (n-0)(n-1)(n-2)(n-3)---.$ (n-1)(n-2)(n-3)---.

$$3p_2 = \frac{3!}{1!} = \frac{6}{1!}$$

210 120 201 102 0 2 1 Cembination

boxes=3 Sterm=2

$$\frac{3}{C_{2}} = \frac{3!}{2! 1!} = \frac{3 \times 2!}{2! \times 1} = (3)$$

4 boxes, 3 9 tems —
$$\{1,2,3\}$$

4 boxes, 3 9 tems — $\{1,1,3\}$

4 boxes, 3 9 tems — $\{1,1,1\}$

4 $\{1,2,3\}$

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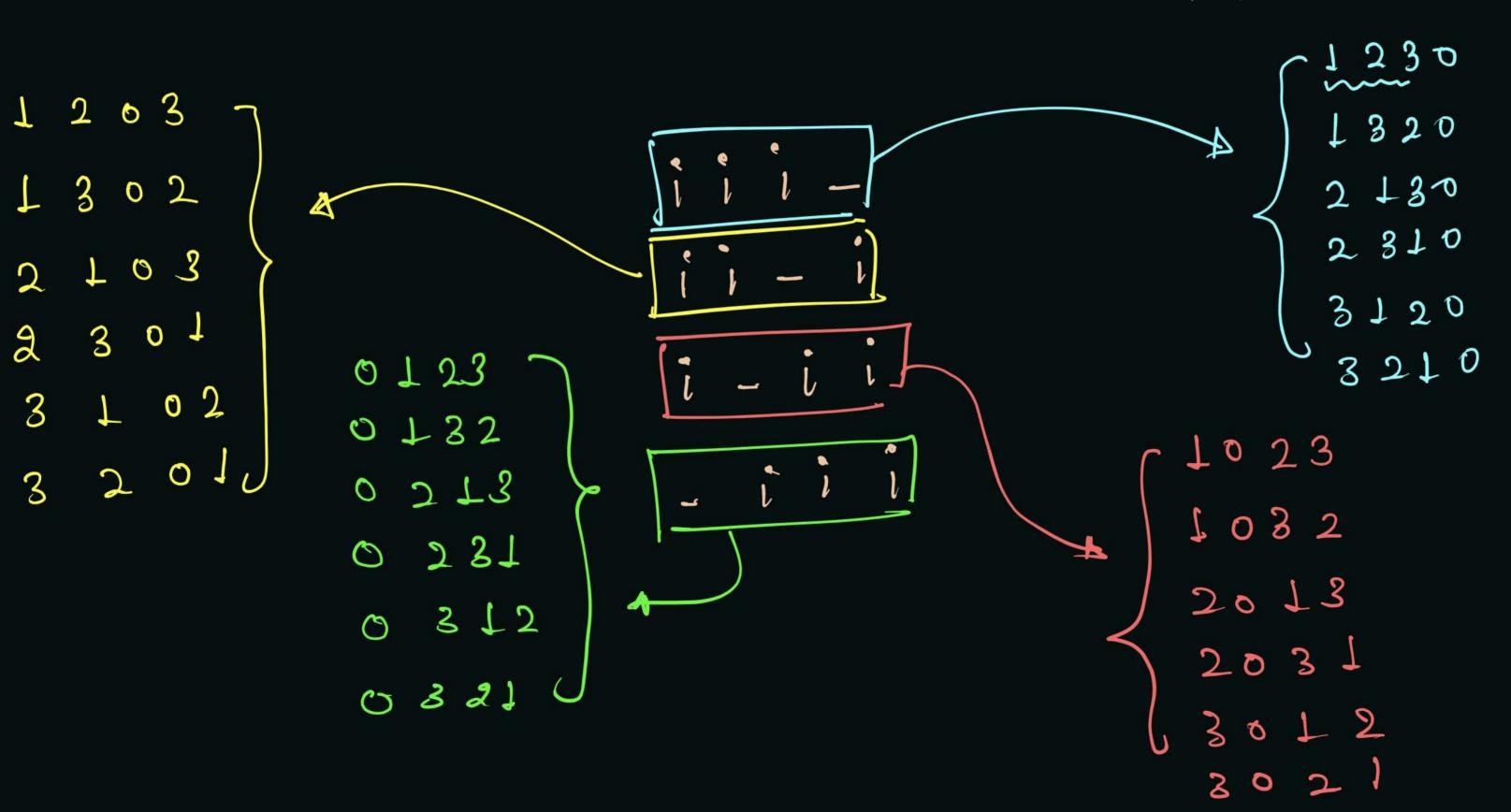
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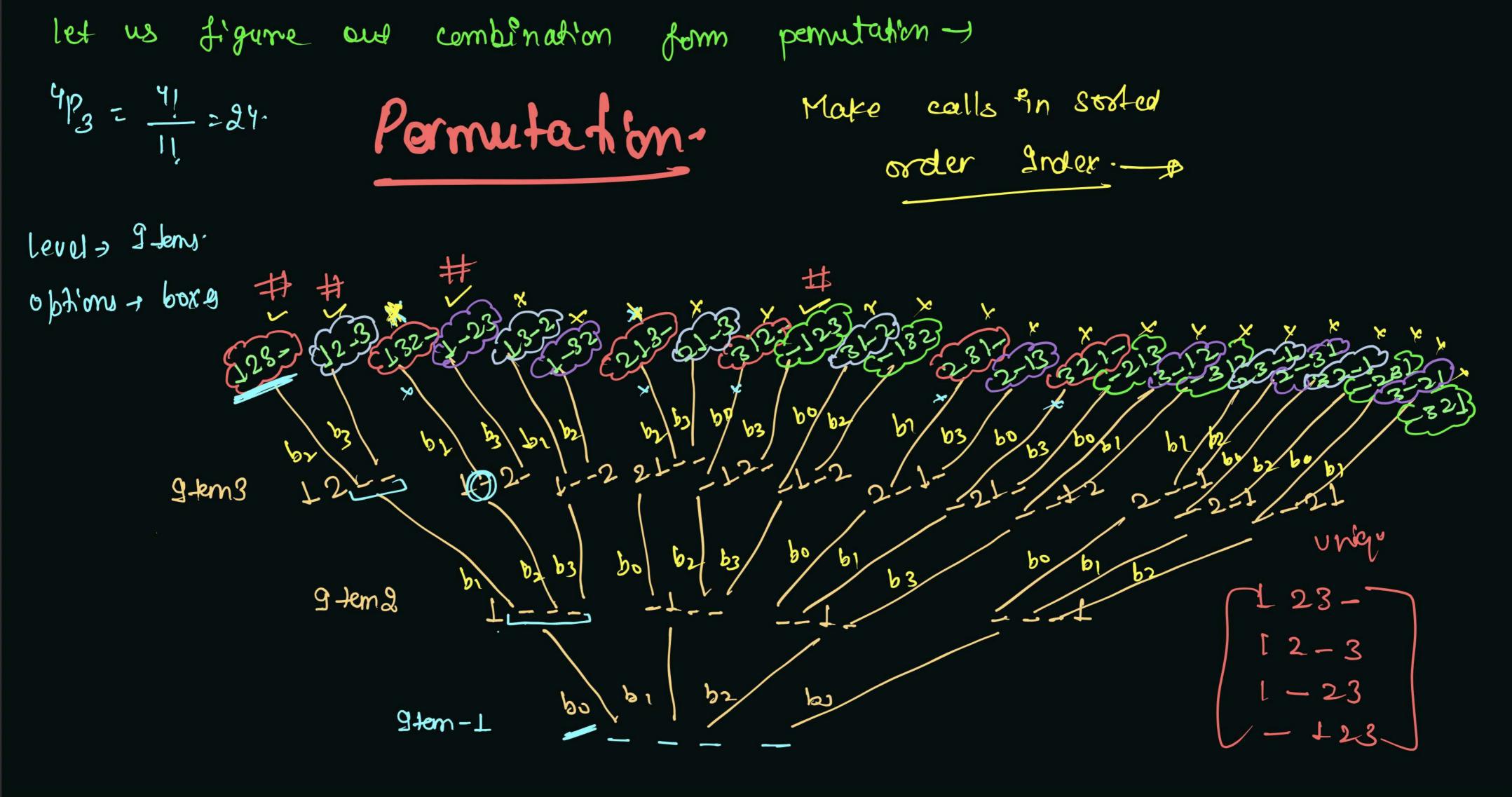
1 $\{3,3,3\}$

1



24 pernutation

4 combination



box - for placing, 4. - for level 3) 1) Box coo aloof for male 1 Lb -1 g-terns" Level -1 in Son ed grow aprovoios levs. alogians - poxes. fun 63 60 9 km 3 63 3 **b**3 (b) 9 tem 2 25/200 oregon bz 00 9-tem 1