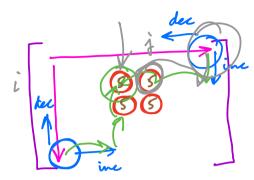
"Conquer yourself rather than the world"

- René Descarte

At man, an -> 1 hr n. > n+1

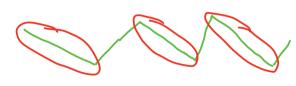


(ix1009+j)

Decreasing dishes

Man prosible sum of a subarray with decreosing elements.

7 12 14 6 8 11 12 15 29 (31) 6



Benjamin and AND

 $B[h] j \#(i,j) \rightarrow (a[i] k a[j]) hos him but set.$

both should have him hit set.

count [h] -> No. of elements in a [] whose who hit is set. ((a[i] & (1<<k))>0) $\left(\frac{\operatorname{count}[h] * (\operatorname{count}[h]-1)}{2}\right)$

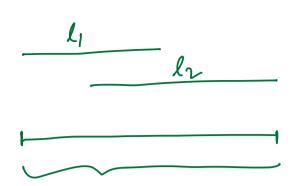
m elements -> no. of pairs using these elements.

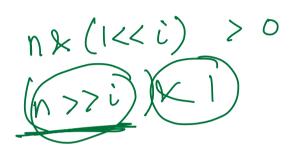
$$(m-1) + (m-2) + (m-3) + --- + 2$$

$$= (m-1)*(m-1+1)$$

$$\frac{M * (m-1)}{2} = \frac{(m-1)* (m-1+1)}{2} = \frac{m(m-1)}{2}.$$

$$n_{C_{r}} = \frac{n!}{(n-r)! \cdot r!} + \frac{m!}{(m-2)! \cdot 2!} = \frac{m(m-1)}{2}$$





ben (x, y) $\longrightarrow \chi * y$.

if (y=0) ret 0ret (x+ben(x,y-1))