

Prefix / Suffix/ Cummu lative Values before or affer sorting and then sewdying Strings with all above approach

$$S = a_3^2 a_3^2 c_3^2 a_3^3 b_3^2 a_3^2 c_3^2 a_3^2 b_3^2 a_3^2 c_3^2 a_3^2 c_3^2 a_3^2 c_3^2 a_3^2 c_3^2 a_3^2 c_3^2 c_3^2 a_3^2 c_3^2 c_3^2$$

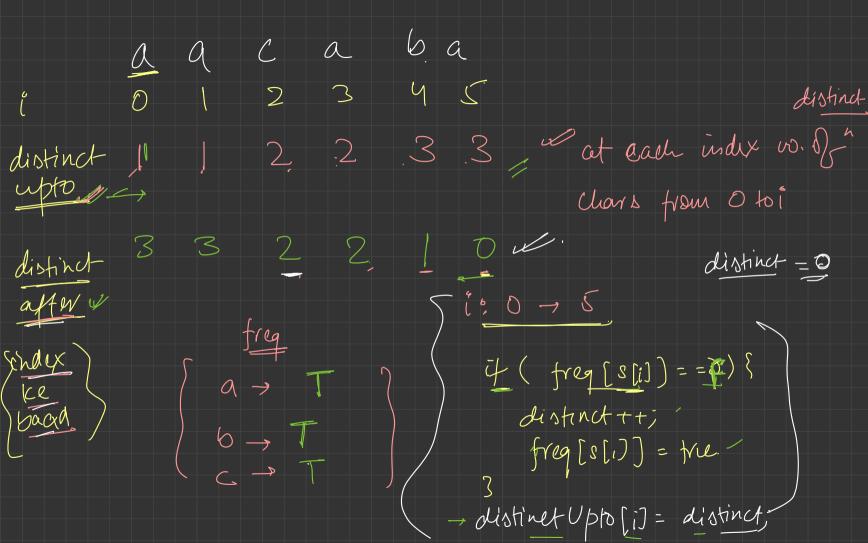
sput at N-2?? Sright=(n-1,n-1) Sup > (0, N-2) We can sprit at any index [ c [0, n-2] loop (=>0-n-2 Theele wo. of distinct elements from 0=1??

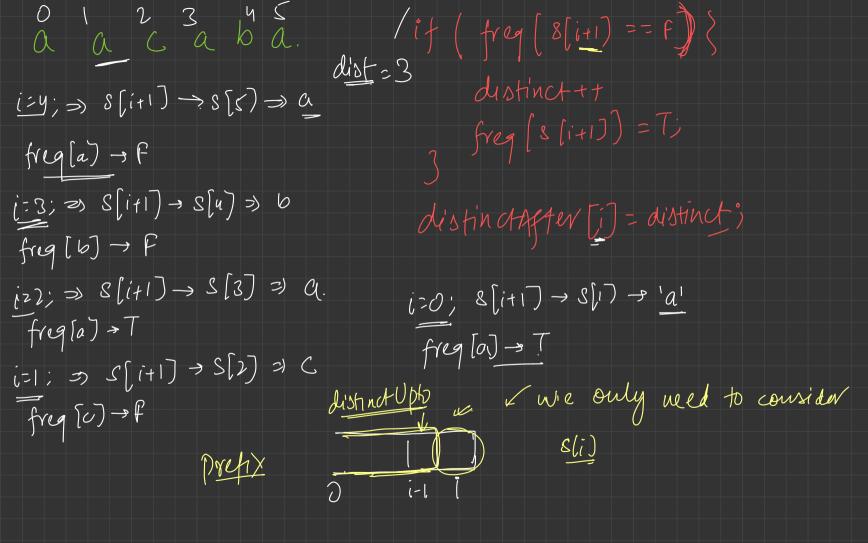
Theele vo. of distinct elements from (+1-> n-1?)

The equal - mondae in output-a

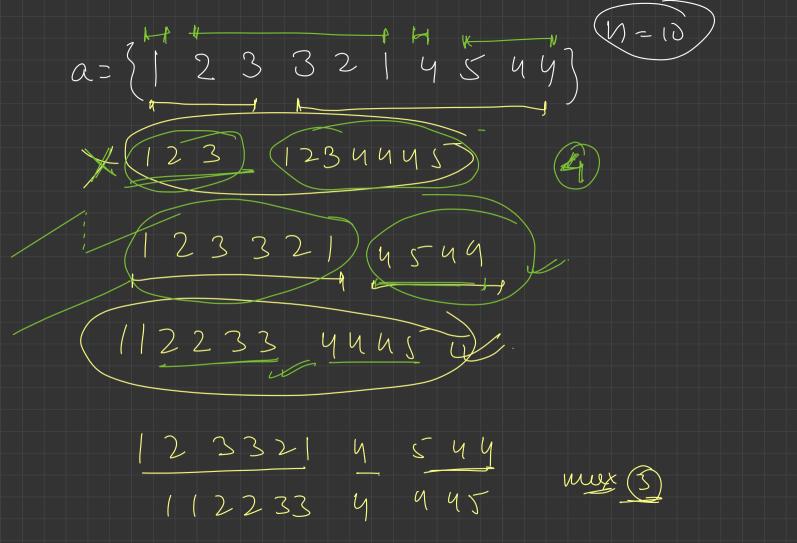
aacaba Check distrinct Element (int e, int r, string s) & int trea [26] = 80) to store freq of chars (a 2) for (i= 1; (== Y; i+t) { freq [S[i] - 'a'] ++; 99 6-1 int count:0;  $C \rightarrow 2$ for ( int 1=0; (<26; (++) { d 7,0 if (freg [i] >0) { Count ++;

Edistinet cherrs after this } if(distinctInRange(0, i, s) == distinctInRange(i+1, n-1, s)){ upto that index Cum mulative Sam of all elements up to that index >> -3 N -1





distinct Affer Nadating distinct After for ith index we need to consider s[it]



12333214544 1, (2) (1, 2, 3, 3) 4, 4, 4, 5 Sprit not allowed When the left part has a value which is greater them some element in the right

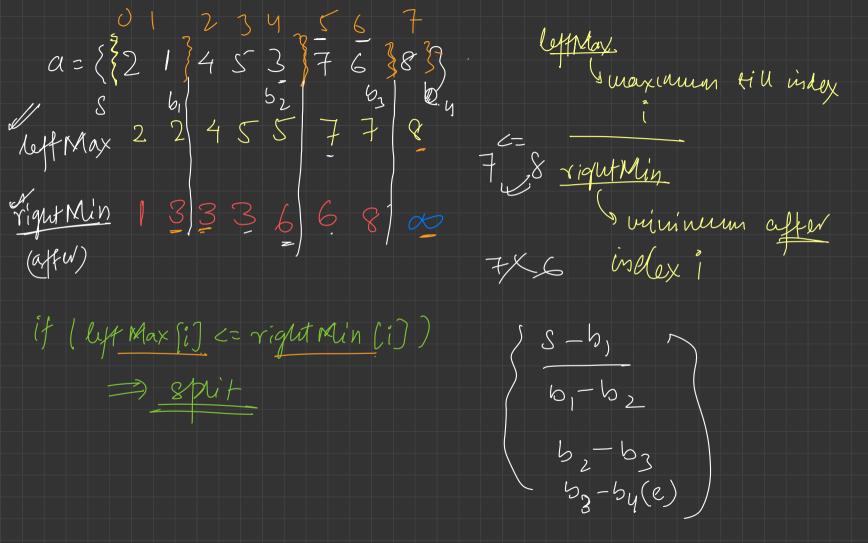
a, a, -- (ai) (aixi) a, --, an) 3 4 not in correct order?

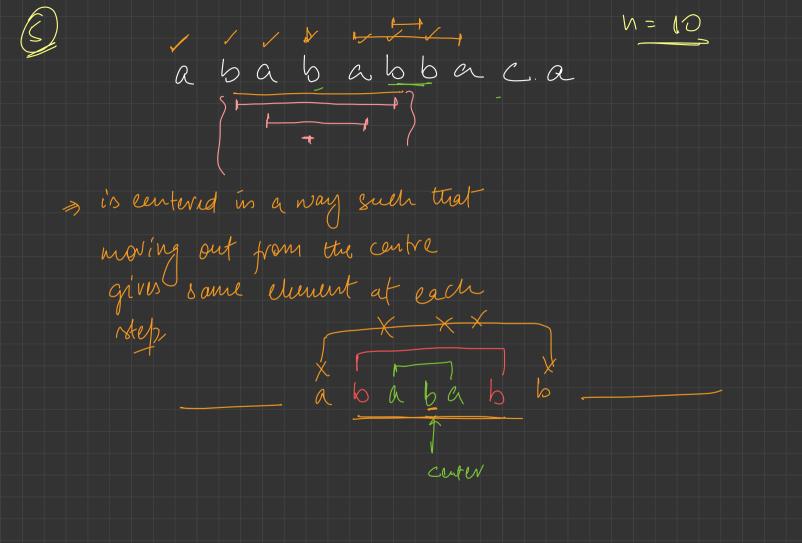
max (3)

min (4)

01 = {312}6453 123456 (3), 1, 2, 4, 6,6

=> if we want to partition the part of the array, then
the necessary counds is max of left == min of vight





abba time to find all palindromes Center for a specific O(N) - O(N) odd lugth palindrome: center-Delan

Lo. of centers possible - (n)  $\Rightarrow O(n^2)$ (n) x O(n) => even langth put. time for pal. check  $\rightarrow O(n)$  ?

no  $\delta_{\xi}$  centers:  $n-1 \rightarrow O(n)$  ?  $O(n^2)$