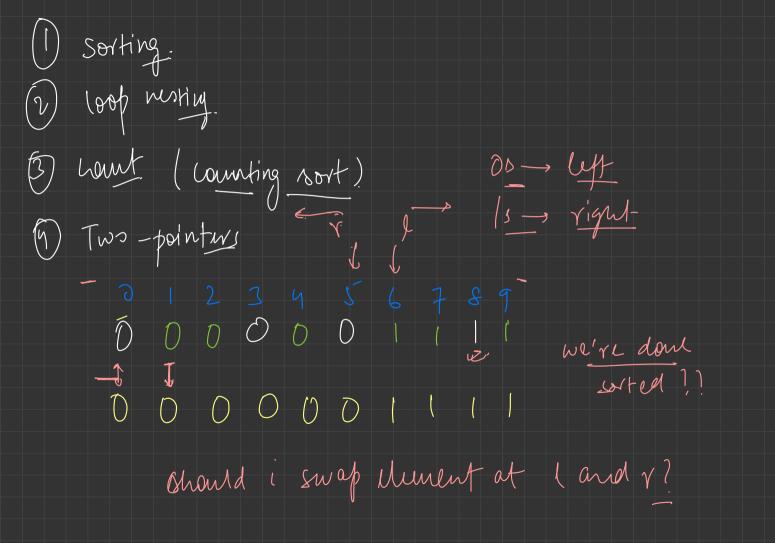
Q-Given an artang of or and 1s, bring all Ds before D- Check palindronne. Q. Reverse arrang/string 10 01101000010 output 000001111



Q. Subarrays with exactly K values. D bet all subarrays, and dreck them 2) we find the no. of good enbarr ending at a certain indiex. I - how to find no of good subarrays for a particular index

we find two values l(i) and l(i) 137 work of 2 3 4 5 6 7 K-4 1 2 2 2 3 4 4 5 l(i) = from where exactly ! to find how many subarrays end at i=7, with exactly 4 (K) values less than a (Start before Nat 7) × 1 2 3 19 5 6 7 while we were going left from i, 2 2 2 3 4 4 5 3 2 2 1; ei (hu) 5 l(i) 4 4

no of distinct values ++; leffmost index from И(i) or stayed same where exactly 16-1 values exist witi. $2 \quad 1 \quad 3 \quad 4 \quad \boxed{(C=2)}$ ending at i. $(C=2) \quad \text{distind} = 2$ $1 \quad 2 \quad 3 \quad 4 \quad \boxed{(C=2)}$ values suff j right until feure are no more them Ic values

D. I. Given a sorted array, find a pair of values sum to X. 27. 123569

$$a[i] + a[j] = 1 + b = \frac{7}{i+1}$$

$$a[i] + a[j] = 1 + 2s = 26 > x$$

$$i = -1$$
 $a[i] + a[j] = 1 + 19 = 20 < x$

$$i + + j$$
 $a[i] + a[j] = 3 + 19 = 22 < x$

$$i + t;$$

$$a[i] + a[j] = 8 + 15 = 23 < x$$

$$i + t;$$

n-a.sizel) 23132467928 10: 2 1 4 3 9 6 × freg[b[i]] De the elements Which do not exist in b() be placed in descending or cliv. - store the freq of all V = [2 | 2 | 2 | 1 | 4 | 3 | 3 | 9 | 6 | 7 | 8]

1 4 3 2 (,4) -1 min - 1 $(1,2) \rightarrow 1$ (1,4) (2,3),2 -3 (1,2) - (3,4) (1,2)(3,4)(5,6)(7,8)

(a, a, a, a, a, a, an) if they are sorted in non-decreasing order pairs would be: (a, a2) (a3 aa) (a5 a6) " buldble 801/- } . insertion sort / Selection sort

Frequency array ?? a-1222344556 (12) (22) (34) (45) (56) 3 2 8 8 (+2+3+4+5 2 3 4 (S) 0 4 0 18 0 / 3 / x /2 /2 /x 0123466

bool left_over = false; for(int i = 0; i < 2*n; i++){ if(freq[i] > 0)sum $+= i*((freq[i]-left_over+1)/2);$ left_over = (freq[i]+left_over)%2; Sum + = 2 x (2-1+1)/2)

$$freq[a] = 5$$

$$sum + z = 9 \times (15 - 1 + 1)/2) = 9(5/2) = 9(2) \ge 18$$

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$$1$$

fry of -3 -> freg(-3) x

freg [-3+5] - freg(2) Q. Find the closest triplet to X in a sorted array. Given 3 sorted arrays, find three dements one from each such that they are closest.

(A,B,C) -> minimize (mex(A-B,(B-C/C-A))) Dinary Seeven DAGG VESSIVE COWS $2, 3, 5 \rightarrow (2, 2, 3) \rightarrow 3$ Deinter Partition 3) Murthal & Paratha