

It were M array element, count no of element backing atteast + element greater than 9 told + no 16. fam. I largest | count of + array + a

Brutefore

fer (1=0; i < M; i + t) {

fer (j=0; j < M; j + t) {

if (any bogger element found)

C++; break;

}

rhum c+4,

7C=) O(N2)

```
Orsenolis
          1) every element except the largest element
             usil have any element brigger than itself
               ans = all element except largest elements
                aus = M - (cout of largest of)
           i ferale to get maxim
           11) iterate the get count of man m
                Ous = N - cout of work
          MONV = O
           fer (120; iKN; 144) }
volid
 lulul
                  if ( man & amii) }
MaxV = INT-MIN
                        mag U = am[i]
magy = amto]
            C = 0
            fer (120; 14N; (4+) {
                    1/7 ( Harv = 2 amil)
```

C44

$$\begin{array}{rcl}
\text{CN 20} & \text{arr [6]} & \text{2)} & \text{[2]} & \text{2]} \\
\text{Mos M} & = & \text{2} \\
\text{Cout} & = & 6 \\
\text{Cus 2} & \text{$l-cout} \\
& = & 6 - 6 = 0
\end{array}$$

TC => O(2N) \(\text{\text{SC}} \) O(N)

How => Change this code, and solve in a single loop

Je biren Marray elements, check et there exists a pair (i,j) such that artist a artist = zk, & is given sum.

ar = 3 -2 1 4 3 6 8 0 1 2 3 4 5 6

K210.

 $O(p = true =) \quad O((5) + O((5)) = \frac{20}{20}$

am =>
$$\frac{2}{3}$$
 $\frac{4}{3}$ $\frac{-3}{3}$ $\frac{7}{4}$ $\frac{7}{4}$

Brutefore

fer (1:20; i < N; i + 1) {

fer (j:20; j < N; j + 4) {

if (i == j) Continue;

if (arti] + artij = = = 1c)

setun free

3

ζ

setum false

ferations => N * N => N2 TC => O(N2) SC => O(1)

Ophinised

fer (1:0; i < N; i + +) {

fer (j = i + 1; j < N; j + 4) {

if (arti] + arti] = = = (c)

setur free

?

2

setum false

$$N-1 - 2 + 1$$
 $N-1 - 2 + 1$
 $N-2 - 2 + 1$
 $N-2 - 2 + 1$
 $N-1 - 2 + 1$
 $N-2 - 2 + 1$
 $N-1 - 2 + 1$
 $N-1$

N-1 + N-2 + N-3 + - - - + 3 + 2 + 1+ 0 -

$$\frac{(N-1) * (N-1+1)}{3} N(N-1) \text{ if freetion}$$

B.F \Rightarrow N2 iteration \Rightarrow TC \Rightarrow UCN2)

Oblimisel \Rightarrow NCN-1) iteration \Rightarrow TC \Rightarrow OCN2)

backdung
favarevisited
thow to do it in Java
scaler topics

23, hiven au grey, revese entire array Sc: O(1)

SC > O(1) -> no extra array given array 11 self should chang (get sevesed)

```
pseudo
             revere ( arr, N) {
               0 - 0
                               TC => O(N)
SC => O(1)
               3 = M-1
              white ( ; <= ;) }
                 swep (amily, amily)
           Xtun are
94. When N array elements, 2 [Si, Eil, seuse
       arrey from [Si - Ei], note => Si & Ei.
```

am => -3 4 2 8 7 9 6 2 10 Si = 3 启 27 gev.am => -3 4 2 2 6 9 7 8 10.

psudo

QS. Cièven N arroy elements, rotette arroy from lost to first by le times.

antition 3 -2 1 4 6 9 8

K=1

Mated array 3 9 8 3 -2 1 4 6

K=2

Mated array 3 9 8 3 -2 1 4 6

K=2

Mated array 3 6 9 8 3 -2 1 4

Mated array 3 6 9 8 3 -2 1 4

=> K = K90N 1) reverse the entire array - reversible (arr, 0, 11-1) 11) remer the first k dement -> remerseforst (orr. 0, k-1) 111) reverse the last M-k element -> severefort (orr, K, M-1) M 2) O(N+K9N-K) = 0 (2N) × O(N) SC => O(1) k > N 3) seunselan (am, 0, (L-1)) amts 1 k20. 3 QO Q1 9 92 $\alpha_{\mathbf{q}}$ Q, q_o _le = 2 qy 90 91 93 7) a_3 α_2 ay Q_{Q} Q1- α_{o} 93 Qy le 24 Q_{l} Z) 92 ay 93 α_o q_1 q_2 ري le 25 93 છ) ay ao q_1 92 つ に26

 q_3

aa

D)

le = 8

ay

a3

Q0

 a_{4}

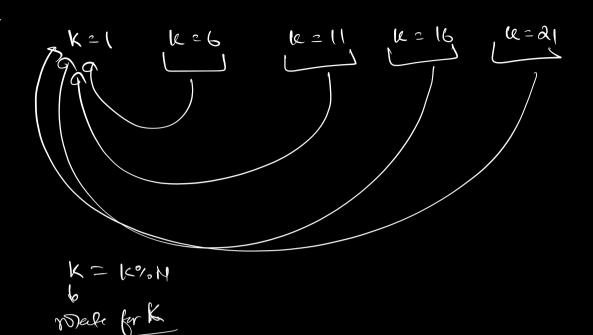
 q_1

a D

926

a1 4

M cs



Ophonal

How 2) Rolate & Bure (Lol)

Blatic laught array - arreys with dynamic laught

C++ > vector

faux -> arraylish
Python -> Ust

Ct+ -> arraylish list

Js -> array

C -> Change to Cas (Jana.

list (int) log botatype

l.82e() → 0

()) meni, (

Consert(2)

(Insen (3)

l. me() - 3

point (l.get(1)) -> 2

(9 (get () (9 n sent () (, b're ()

11 post all claverts of a Cist

ferl i=0; i< 1.87el); (141) }

point (l.ger(1))