

DSA_Azaan Page 1

Sieve of Evator Chenes: -

n = 36 (39) (41)

for (021 -sn) Case I: Brute force & Prime(i) 0 (n=n= 0 (n=) Squarre Root Case 2: Oln x sh

2 5 11 3 7 13

n=13

Code; -

are [o] = are(1) = 0

for $(i=2 \longrightarrow n)^{\frac{1}{2}}$ if $(arr(i)=D)^{\frac{1}{2}}$ / Mark factors/multiples

3

```
1) aver[j = rew int[n+i]]

a) for(i=2 \rightarrow n) \{

aver[i] = 1;

for(j=2 \rightarrow n) \{

for(j=2 \rightarrow n) \{
```

j=an= = / j=ixi

 $Q \rightarrow \mathcal{N} \times$

 $2 \rightarrow 5n$

for (2-5n)

 $\frac{1}{2} \sin \alpha = \frac{1}{2} \sin \alpha$

ce 123449 (10)

largest odd no =

Even Ocl d

L

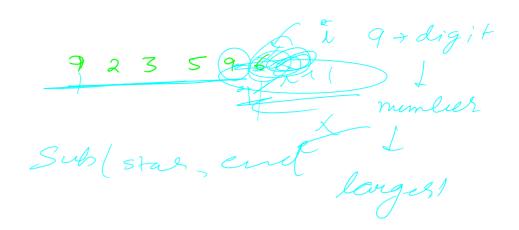
las=0,<,4,6,8

1,3,5,7,9

123456,2

1222299994

∫ 1 9 + digit



Chelk Anagram: -

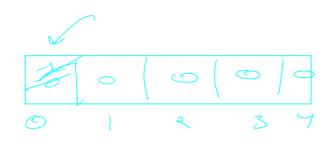
Stor1: "BOOB" 7 anagram Stor 2 = "BOBO"

= Bond -

BOOB ZZ

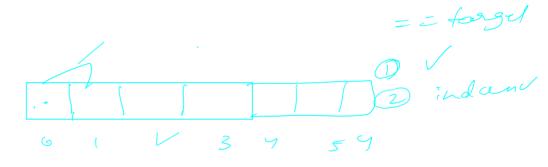
char = pront

Counting Bort



for Char y: Starto CharA

for o



Approach : B

fer(no-sh) fu(j=oit(1-yh)) ar(i) + ar(i) = $o(n^2)$

Stains

array

arr [] Z ["Azaan" = "Sulail" , "Ajgvi ar (n-1)-leng-h

Maximum Consecutives (95.

Example 1: Input: nums = [1,1,0,1,1,1] 0 | PZ 3 Output: 3 Explanation: The first two digits or the last three digits are consecutive 1s. The maximum number of consecutive 1s is 3. Example 2: **Input:** nums = [1,0,1,1,0,1]Output: 2

Consecutive

Step1 man-count 2 -0

Efrebli if 1 -> countité el man-cour =

else -> count =0

Montanic Durais:

Input: nums = [1,2,2,3]Output: true xample 2: **Input:** nums = [6,5,4,4]

Casel:

Example 2:

Input: nums = [6,5,4,4]

Output: true

xample 3:

Input: nums = [1,3,2]

Output: false

Casc

inche + tune

inc = torue

dec = torue

Case 3',

1) for (i= 1 ->n)

are[n] rese[i-1] -> decress efel

a) for $(j=1\rightarrow n)$

are(i) - iner(-) fal

if (iner = = ta) Telse (ide = +1) L

s goder false

Case 3'

reton

i e