#### Strings Introduction

#### Strings:

02001 mattou

$$|A'| \rightarrow 65$$
  $\stackrel{32}{\longleftrightarrow}$   $|a'| = 97$  A sc  $\exists f$ 
 $|B'| = 66$   $\stackrel{32}{\longleftrightarrow}$   $|b'| = 98$ 
 $|c'| = 67$ 
 $|c'| = 99$ 
 $|c'| = 99$ 
 $|c'| = 32$ 
 $|c'| = 122$ 
 $|g'| = 57$ 

# chart a = A'print (int) a) = 65

obs: B/w capital & Small chon, Ascil Value diff is 32

int world

5 things

String! { we cannot change

them; Immutable

string builder { a particular index

value.

String S = "Hello"

S[0] = 'A' X In Java

Vin Ccc++

Chan S[5] = { 'H', 'E', 'L', 'L', 'O'}

SCOJ= 'A'
C, C++

```
Q. Given 4 char []. Togale each char.
                          5[1 = Ana Con Da
                 1
         ans [] = aNA = ONd A
                               only uc & Lc
                                 Churs
Chart J Toggle ( Char 517)
         int n = S. length ()
           11 55:1
           16 C 5[i] ≥ 65 & P 5[i] € 90)
              // SCi] is opposeuse
SCi] = SCi] + 32
          else
             11 2(1) is sometimes 3
                                         60th
              S[1] = S[1] - 32
        actum s
  TC: O(N)
  Sc: OCI)
                                  5 (0) 6 2
```

$$A' = 100000$$

$$1 + 32$$

$$0 = 10000$$

$$1 = 10000$$

$$37$$

1011010 121 1111010 

### SCIT 1 (1205)

hello 132

TC : OCN) SC: OCI)

Ans: Ideal - Array sort TC: OCNJOgN)
Idea2

dabacab -

```
a -'a' -> 0
6 -1a' -> 1
C -1a' -> 2
25th -> Freq of 'z'
2 - 191 -> 25
   1nt c[26] = {03
  ~or ( i=0; i<n; i++)
 // S[i] int index = S[i] = [a]

C[index] ++
                                      41
                                            2
   int K=0
                                     aabbcdd
   for(i=0; i<26; j++) 10/10/2
   )/ chan tmp= ++'al j= 0+'al = la,
    for (j=1); j \in (i); j + 1)

2 + (a) = (b)

\begin{cases}
SCK] = j + |a| \\
K++
\end{cases}

                              25 +61 = 721
```

No of Horshing of Innor you 100p;

9) 26 R 26

d) N2

e) None of them

([5] + C[1] + C[2] + ... C[25]

TC: O(N)Sc: O(C)Chan size = O(1)Chan = 26

## deabcad be f

Q. Given a string / char []. Revense

9 part of string

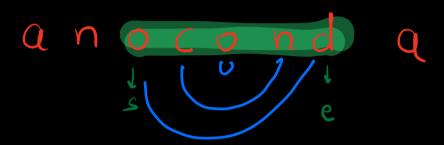
Substring

Continous part of string
Entire String is also substring
Single Char is also substring

Supsting.

$$G_{\gamma}$$
 01 2 3 4 5 6 7  $S = 2$   $e = 6$ 

an= andnocog



revouse ( chan SSET, int S, int e)

revouse (SS, O, N-1)

Q. Given a cht], consists of Jots of words each word separated Revouse word by word No extra space -

Ex = Jove hate \_ data \_ structure

ons = structure \_ data \_ hate \_ Jove

Ex Marry \_ love \_ Kill

and = Kill \_ love\_ Movery

s: Jove hate data structure eruteurts\_atad\_etah\_evol structure \_ data \_ hate \_ love

```
Reverseword (char 507)
             int N= S. length
             revouse ( s, o, N-1) > OCN)
             P, = D , P, = 0
          While [ P2 < N)
               If ( 5 [ P2] = = '_ ')
              Prevoue (s, Pr, P2-1)

P_1 = P_2 + 1

P_2 = P_2 + 1

P_3 = P_2 + 1

P_4 + 1
          revoue (s, P, N-1)
Tc: O(N)
                               OC size of word!)
SC: OCI)
                            t O CSize of wordz)
                            = 0(12)
```

O. Given a char S[]. Check if given substring is Palindrome or not.

bool check Palindnome (char sc1, s, e)

int 
$$s' = s$$
  
int  $e' = e$   
while  $(s' < e')$   
If  $(s' < s') ! = s' < e'$  setum False  
 $s' + t$   
 $e' - -$ 

return True

Tc: O(N) n O( Yen of substring)

## Sc: OLD

Doybe

LInkedIN

Keshar Seksania hoogle

4 tims

5 Hm 4 Inside 5 4 5 5 20

C-a= (2)

C C 32

: 0