String

Group of Characters. X

Sequence of Characters

Array of Characters

Set of Characters

Sist of Characters

String is an Ordered Sequence of Characters.

ASC 11

=> Strings are Immutable (Java Python/C#...)
=> String Builder >> Java

Q. Given a string &, Toggle the case of energy character. I small case > Upper case Uppercase -> small case S= "aAbBcc" Cy "Aabb Cc" => String toggle (String S) (for (1=0; 1< n; i++) < if(slig >= 'A' +& slig <= 'Z'){ 1/8[i] is an Upper case. $\frac{3}{2} = \frac{32}{32}$ S(i) += \frac{32}{32};

obs('a'-'A')

else if (8[i] \gamma = 'a' && s[i] \lambda = 'z') \frac{1}{2} S(i) -= 32;

TC: 0(N)

 $32 = 2^5 = 0 = 0 = 0 = 0 = 0 = 0$

$$\frac{1}{2} - 65$$
 $\frac{1}{6} \frac{0}{5} = \frac{1}{4} = \frac{0}{3} = \frac{1}{2} = \frac{0}{0}$
 $\frac{1}{2} \frac{0}{5} = \frac{1}{4} = \frac{1}{3} = \frac{1}{0} = \frac{0}{0}$

- 1) 5th bit mill be unset in all upper case Characters.
- 2) 5th bit mill be set in all lower case Characters.

Or Given a String, String contains only lower case characters. Sort the string.

S: "dabaedb"

8: "a a b b de"

=> Sort (S. begin (), S. end ())

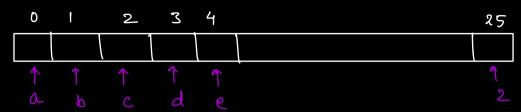
=> String only contains bouer case alphabets, So String can have 26 distinct Characters.

S: dabaedb

 $a \rightarrow 2$ $b \rightarrow 2$ $c \rightarrow 0 \Rightarrow aabbdde$ $d \rightarrow 2$ $e \rightarrow 1$ $e \rightarrow 1$

-> HashMap / Array -...

int count [26] = los;



```
Character
                         inden
for(i=0;i\leqslant n;i++) (
||Slid) \rightarrow count[S[i]-97]
||Slid| \rightarrow count[S[i]-4]
         =
for( i= 0; i(26; i++) (
               11 Count [i]
               11 Char => i+1a1
                for(j=0; j < count(i); j++)<
                          Str. append (i+ 'a');
                 }
```

```
Di Given a string, start inden (s) & end inden (e) leverse the substring from 8 to e.

Contigous part of the 8-tring = Subarrays
    S: abdeagf
          abgaedt
              whresosyions
Quiz
               why soserions.
              ruerse (Str, s, e) (
                  while (S(e) (
                       Swap (Str [3], Str [e])
                        5++
                        6 - -
                       TC: O(N)
                        SC: 0(T)
```

Given a String, which stores a sentence. → No entra space before & aftere is separated by a single space. -> Reverse the string word by mords: "here_is_a_picture" > picture a is here 3: Are you as Clever as I am am I as Clever as you Are S: Mailmen boings letters letters bøings Mailmen I reverse each word individually Srettel squirb nemliam

- Steps I) henerse the complete string (reverse (Str, 0, N-1)
 - I) kenerse all the mords individually.



=> Code TC

=> String is Immutable in Jang.

