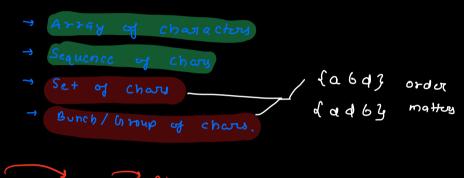
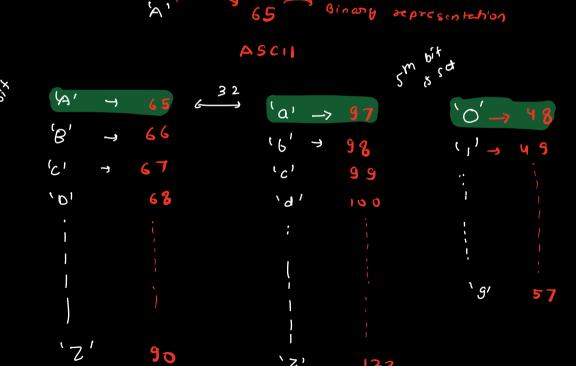
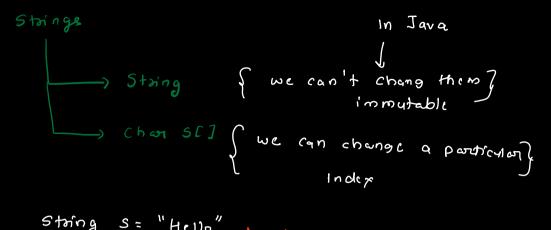
Strings Introduction

Strings:





B/w Capital & small chuz, ASCII value diff is 32.



char[] Toggle (char sc]) TC: O(N) Sc : 001) int n = S, length () for (i=0; i < N; i++) 11 still If it is opportune to Howly lf 1+ 15 10ωση → υρρυγ IF ($S[i] > = 65 + 4 S[i] \leq 90$) 100 E else Both works 5 61] = 561] - 32 7chm s If (scij 2'A' 48 scij 5'z')

Q. Given a chan chi], only consists lower-case alphabets ('a'-z'). Sort the ch[].

Ideal Arrays..sort TC: OCNJOBN)

idea2

ag 6 a 6 b a a 6 b a a a a a a b b b 6

dabacab + aabbcad

Count occurences of each character.

```
(ount[25] - 2

(ount[25] - 2
```

```
int (ount [26] = fo]

for (i=0; i < N; j++)

count [ch-le']++

count [sci] = 'a']++

char sci = same input

int ind = 0

for (i=0; j < 26; j++)

('' add (ount[i] times ith char in the answer

char (i=1; j <= count[i] ; j++)

Scind] = ch

count [0] + count[i] + count[i]

count [2]+

count [2]++

count [2]++

count [2]++

count [2]++

count [2]++

count [2]++

count [2]-+

count [2
```

aaaaa 6666 cccc dddd cee 721 count(s) count(s) count(s) -- --

aaaaa 6666 cccc dddd

TC: OCN) Sc: O(26) \(\delta\)

abcdabbcd6 addd

for (i=0; i(26; s+4)

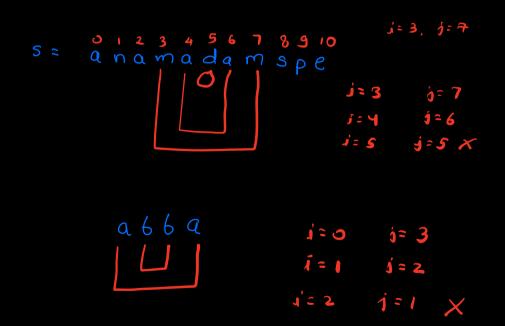
<u>a</u> <u>a</u> <u>a</u> <u>6</u> <u>6</u> <u>6</u> <u>6</u> <u>6</u> <u>6</u> <u>C</u> <u>C</u> <u>C</u> <u>d</u> <u>d</u> <u>d</u> <u>d</u> <u>d</u> <u>d</u>

1 ind

Bron'c 10:34

Q. Given a char[], i and j. Check 14

Substring (i-j) is palindrome or not.



Q. Find den of longest Palindromic sybstring.

Ideaz :

1. Take each chan as center, find Ion palindomic substring.

```
2. Take each if i+1 as centur, find long. Palin.
                                                     Sapsting
   0 1 2 3 4 5 6 7 8 9 10 11 12 13 13
a 6 d y z z y d 6 d y z y d x
   į
                                    9-0-1=8
        int extend (i,j,s[])
          while (i \ge 0 &f j < N &f 5[i] = = 5[j]) O(N)

Lum j-i-1
    int Jonpalsubs ( 513)
          int N= S. length
           "i is centre.
           int tmpans = extend (i, i,s)
        "if it is centre

int topons = extend(i, i+1,5)

ans = max (ans, topons)
```

4th Dec (Sunday) g PM

Optional Sorting - Comparator

axyzcabacpar X

xyzaabaabaape