

C++ Strings 2

Lecture-18

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Warmup Problem: Input a string and return the number of times the neighbouring characters are different from each other.

*Sorting a string using in-built function

Sort → ascii values ke order me sort karke de dega

```
string s = "name";

Sort (s.begin(), s.end());

s = a e mn
```



Ques: Given two strings s and t, return true if t is an anagram of s, and false otherwise. Leet code > 242

```
Sorting -> builtin
```

Input : s = physicswallah, t = wallahphysics

Output: YES



Ques: Given & string consisting of lowercase English alphabets. Print the character that is occurring most number of times. Extra Space - 26 size

string s = "leet code";

Special array - intarr[26]

maxCourt = 0; constant space

| a | b c | d | e | f | 9 | h | 1 | <u>/j</u> | K | - | M | И | b | P | 9 | ~ | 3 | E | ч | V | W | N. | Ч | 2 | |
|---|-----|-----|---|---|---|---|---|-----------|----|----|----|------|----|----|----|----|----|----|----|----|----|----|----|----|--|
| 0 | 0 1 | V | 3 | D | 0 | 0 | 0 | 0 | 0 | t | 0 | 0 | 1 | 0 | D | 0 | b | 1 | 0 | 0 | 0 | 0 | 0 | D | |
| 0 | 1 2 | . 3 | 4 | S | 6 | 7 | 8 | 9 | 10 | ļI | 12 | . 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | |



Stringstream class

```
String S = "Raghav is a maths teacher";

J

Q is to calculate the no. of words
```



Ques: Given a sentence, split every single word of the sentence and print in a new line.

```
Already done
 String s;
 getline (cin, s);
 string temp;
 stringstream ss(s);
 while (ss >> temp)
       cout << temp <<endl;
```

Ques: Given a sentence 'str', return the word that is occurring most number of times in that sentence.

```
string str = "Raghau is a moths teacher. He is a DSA
                   mentor as well "
                                          maxCount = p/2
   vector < string> V;
                                            Count = 0/1/2/12
                                                   y V 1 Y 1
V = ["DSA", "Ke", "a", "as, "as", "is", "is", "maths", "mentr",
       "raghav", "teacher", "well!"
```

stoi vs stoll built-in functions

String to long long string to long long -2^{63} to 2^{63} -2^{31} to 2^{31} -1

Ques: Given n strings consisting of digits from 0 to 9. Return the index of string which has maximum value. (Take 0 based indexing)

Input: 0123, 0023, 456, 00182, 940, 2901

Output: 5

SKILLS

*Ques : Input n strings and write a program to find the longest common prefix string of all the strings.

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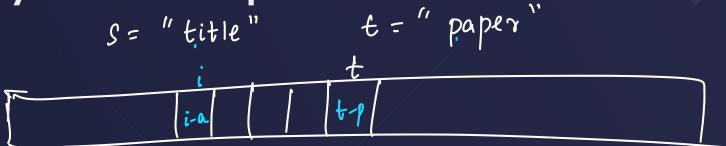
[Leet Code - 14]

NQues: Given two strings s and t, determine if they are isomorphic. [Leet 6de 205]

$$S = "egg"$$
 $t = "add"$ true
$$S = "foo"$$
 $t = "bar"$ false
$$S = "paper"$$
 $t = "title"$ true

Hint: Special array

Ques: Given two strings s and t, determine if they are isomorphic.



SKILLS

*Ques: Given two strings s and t, determine if they are isomorphic. [letcole - 205]



Thank you!