

C++ Strings-1

Lecture-17

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What are strings and Why are they used?

Strings are basically clear arrays.



Declaration of Strings and taking Input

String 5;
cin 77 S;

Cout LL S,

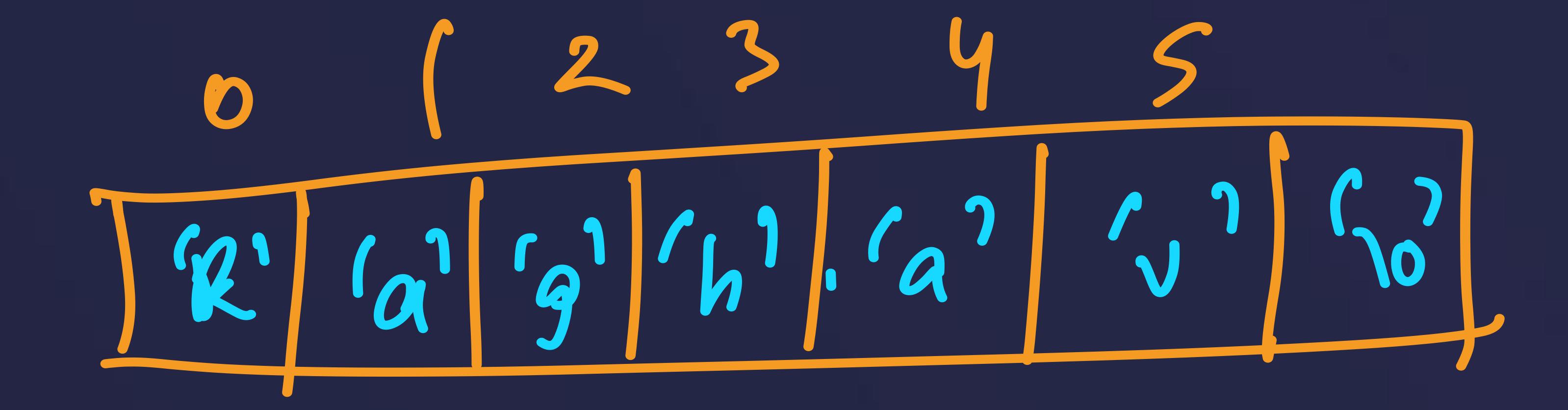
"Roighav"?

raghav garg





Indexing of characters in Strings





Ques: Input a string of length n and count all the vowels in the given string.

```
int n;

cin=2n;

char str[n];

for(int = 0; i=n; i++)

cin=2str[i7;

3
```



Updation of a single character in string

```
string str = "Raghav";

Str[1] = 'o';

cout < < str;

9n C++, strings are routable
```



Ques: Input a string of size n and Update all the even positions in the string to character 'a'. Consider 0-based indexing.



*Built-in string functions

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angth

Substang

int 4 String

etc

chus Hus-com



<string_name>.size()





push_back()

Vectors

2 pop - back()





"+" operator

GOLLEGE WAALLAH



reverse()

```
String str = "ab cdef";
reverse (str.begin(), str.end());
```



Ques: Input a string of even length and reverse the first half of the string.

```
String S = \frac{0.1234567}{abcdefgh}; length \rightarrow n = 8

1/reverse first half \rightarrow 0 to n/2 S \rightarrow dcbaefgh

cout << S;
```



Ques: Input a string of length greater than 5 and reverse the substring from position 2 to 5 using inbuilt functions.



```
substr()
Substring 3
```



Ques: Input a string of even length and return the second half of that string using inbuilt substr function





integer

At converts integer to string

int n = 12345



Ques: Return the total number of digits in a number without using any loop.

Hint: Try using inbuilt to_string() function.

```
n = 1234
4
```



Summary:

- 1) string s = "abcd"; push-back(), pop-back()
- 2) functions builtin langth, to_string, substr, reverse,
 - 3) cin>>str, getline (cin, str)
 one
 word
- 4) S=''abc", t="xy2"



Thank you!