

Q. LeetCode: 344 Reverse String.

Q. Code Studio: check if the string is a Palindrome

Q. LeetCode: 125 Valid palindrome.

Q. LeetCode: 186 Reverse words in a string ||

Q. GFG : Maximum occurrence character

Q. Code Studio: Replace Spaces

Q. LeetCode: 1910 : Remove All occurrences of a substring.

Q. LeetCode: 567: permutation in string.

Q. LeetCode: 1047: Remove all adjacent duplicates in string.

Q. LeetCode: 443: string compression

## \* char & Strings \*

→ strings: strings are one dimensional char array.  
    ↳ char array.

String → 

a	b	c	l	o	l	e	f	g	h
---	---	---	---	---	---	---	---	---	---

→ char array:

char ch[10];      ↳  
                       ch → 

a	b	b	c	l	o	l	-	-	-	h
---	---	---	---	---	---	---	---	---	---	---

ch → for

→ length: strlen(name);

→ compare: strcmp(s1, s2);

→ copy: strcpy(dest, src);

→ input:

char name[20];

i/p    cin >> name;              Babbar

B	a	b	b	a	l	r	\0	---	
0	1	2	3	4	5	6	7	8	9

→ as i/p finish it adds null char '\0' at end



use as a terminator.

→ o/p cout << name; → Babbar

Note: cin stops execution in the case of char array  
when you give space, tab, enter

Q: length of string?

for (int i=0; name[i] != '\0'; i++) {  
    cout << i;

## Reverse a string

```
Algo; find length; s=0; e=length-1;  
while(s < e) {  
    swap(ch[s], ch[e]);  
    s++;  
    e--;
```

y

\* String: String stores its data internally in the form of a null-terminated C-string, but in normal usage does not allow you to access the null terminator.

→ length(): string str;  
str.length();

→ .push\_back('c'); → .find(rant)  
→ .pop\_back(); → .erase(s-index, e-index);

\* Key differences between char array & string:

A string is collection of characters expressed as an individual data type. A character array is set of char data in sequential order. The char function may retrieve characters in a string at a certain index. The symbols in char array could be retrieved in the same way they are from any other language.

→ cin.getline(str, len); (custom delimiter?)

Q. leetcode 443

int i = 0;

int ansIndex = 0;

int n = chars.size();

while (i < n) {

j = i + 1;

while (j < n && char[i] == char[j]) {

j++;

}

chars[ansIndex++] = char[i];

int count = j - i;

if (count > 1) {

string cut = to\_string(count);

for (char ch : cut) {

chars[ansIndex++] = ch;

y

y

i = j;

y

return ansIndex;

