

CHAR ARRAY 1

```
char arr[10];
```

```
cout << "Enter your Name" << endl;
```

```
cin >> arr; → Kash
```

```
cout << "Your name is:" << arr << endl;
```

Loops se bhi
input le sakte
hai but no need
we have
'cin'

```
arr[0] → K
```

```
arr[1] → a
```

```
arr[2] → s
```

```
arr[3] → h
```

```
arr[4] → /o
```

Default delimiters

↳ Enter } '\n'
↳ tab } '\t'
↳ space } ' '

inme se kuch bhi hit hua toh
input lena band ho jayega

⇒ we can use getline() function → isme koi delimiter
ka kuch asar nahi padega

⇒ cin.getline(arr, 100);

↳ cin.getline('arr', 'no. of. characters', delimiter)

★ ★

agar yeh aaya (detect hua)
toh getline terminate ho
jayega

CHAR ARRAY AND STRING 2

LEETCODE 1047

REMOVE ALL ADJACENT DUPLICATE IN A STRING

① i/p → string → "abbaca"
o/p → "ca"

↳ ① → abbaca
② → aaca
③ → ca

② i/p → string → "azxxzy"
o/p → ""

↳ ① → azxxzy
② → azzzy
③ → ay

1047. Remove All Adjacent Duplicates In String

Easy

Topics

Companies

Hint

You are given a string `s` consisting of lowercase English letters. A **duplicate removal** consists of choosing two **adjacent** and **equal** letters and removing them.

We repeatedly make **duplicate removals** on `s` until we no longer can.

Return the final string after all such duplicate removals have been made. It can be proven that the answer is **unique**.

```
string removeAllAdjacentDuplicates(string s){
    string str = "";
    int n = s.length();
    str += s[0];
    for(int i=1; i<n; i++){
        if(s[i] == str.back()){
            str.pop_back();
        }
        else{
            str.push_back(s[i]);
        }
    }
    return str;
}
```

[aapko aa sakta ha]

↳ empty check kr

[!str.empty()]

```
string removeAllAdjacentDuplicates(string s){
    string str = "";
    int n = s.length();

    if(n==0){
        return str; //agar empty string hai toh
    }

    str += s[0];
    for(int i=1; i<n; i++){
        //pehle check kr lo ki...str empty hai ki nahi
        //warna out of bound wala error aa sakta hai
        if(!str.empty() && s[i] == str.back()){
            str.pop_back();
        }
        else{
            str.push_back(s[i]);
        }
    }
    return str;
}
```

LEETCODE 1209

REMOVE ALL ADJACENT DUPLICATE IN STRING 2

1209. Remove All Adjacent Duplicates in String II

Medium

Topics

Companies

Hint

You are given a string `s` and an integer `k`, a **duplicate removal** consists of choosing `k` adjacent and equal letters from `s` and removing them, causing the left and the right side of the deleted substring to concatenate together.

We repeatedly make **duplicate removals** on `s` until we no longer can.

Return the final string after all such duplicate removals have been made. It is guaranteed that the answer is **unique**.

Example 1:

Input: `s = "abcd", k = 2`

Output: `"abcd"`

Explanation: There's nothing to delete.

Example 2:

Input: `s = "deeedbbcccbdaa", k = 3`

Output: `"aa"`

Explanation:

First delete "eee" and "ccc", get "ddbbbdaa"

Then delete "bbb", get "dddaa"

Finally delete "ddd", get "aa"

deeedbbcccbdaa
ddbbbdaa
dddaa
aa