

# Char Arrays & Strings - Level 1

classmate

Date \_\_\_\_\_  
Page 135

Character Array can be printed without loop, this is also valid while taking input too.

ASCII value of Null "\0" is zero

cin does not take input when enter, space, tab is occurred.

Use `cin.getline(ch, 100);`

`Str.len`  $\Leftarrow$  To find length of string

Reverse a string

```
void reverseString (char ch[], int n) {  
    int i = 0;  
    int j = n - 1;  
    while (i <= j) {  
        swap (ch[i], ch[j]);  
        i++;  
        j--;  
    }  
}
```



convert to Upper Case

```
void convert ToUpper Case (char ch[], int n) {
```

```
    int index = 0;
```

```
    while (ch[index] != '\0') {
```

```
        char currCharacter = ch[index];
```

```
        // check if lowercase, then convert to upper case
        if (currCharacter >= 'a' & currCharacter <= 'z') {
```

```
            ch[index] = currCharacter - 'a' + 'A';
```

```
        }
        index++;
```

```
    }
```

Check Palindrome

```
bool checkPalindrome (char ch[], int n) {
```

```
    int i = 0;
```

```
    int j = n - 1;
```

```
    while (i < j) {
```

```
        if (ch[i] == ch[j]) {
```

```
            i++;
```

```
            j--;
```

```
        }
```

```
    } else {
```

```
        return false;
```

```
    }
```

```
}
```

```
return true;
```

```
}
```



## Strings.

In string, we can use insert  
like if "name" is string  
e.g.  $\Rightarrow$

```
name.insert(5, middle);
```

```
name.erase(4, 3);
```

```
name.push_back('R');
```

```
name.pop_back();
```

```
name.substr(19, 5);
```

Similarly,

find, compare, append,  
back, front, length, empty