String related problems (Total 15 questions)

SL	Problem	statement	Difficulty levels
1.	Write a program in C to find the length of a string without using any library function.		*
	Sample Input	Sample Output	
	"My name is andy"	15	
	"Abc 123 7&*&*"	13	
2.	Write a program in C to concatenate two strings without using any library function.		*
	Sample Input	Sample Output	
	"My name " "is andy"	"My name is andy"	
	"123abc" "*A*B"	"123abc*A*B"	
3.	Write a program in C to count how many vowels are there in a string.		*
	Sample Input	Sample Output	
	"My name is andy"	4	
	"Are you READY yet?"	7	
4.	Write a program in C to count the number of words in a string.		*
	Sample Input	Sample Output	
	"My name is andy"	4	
	"Abc 123 7&*&*"	3	
5.	Write a program in C to find the reverse of a str	ing.	**

	Sample Input	Sample Output	
			_
	"My name is Andy"	"ydnA si eman yM"	_
	"Abc 123 7&*&*"	"*&*&7 321 cbA"]
6.	Write a program in C to convert lowercase string to uppercase.		*
	Sample Input	Sample Output	
	"My name is andy"	"MY NAME IS ANDY"	
	"& I am 20 years old"	"& I AM 20 YEARS OLD"]
7.	Write a program in C to toggle the case of each character in a string.		*
	Sample Input	Sample Output	
	"My name is Andy"	"mY NAME IS aNDY"	
	"& I am 20 Years old"	"& i AM 20 yEARS OLD"	
8.	Write a program in C to sort a string array in alphabetic order.		**
	Sample Input	Sample Output	
	"My name is Andy"	" AMadeimnnsyy"	
	"Abc 123 7&*&*"	" &&**1237Abc"	
9.	Write a program in C to count the occurrences of a character in a string regardless of its case.		*
	Sample Input	Sample Output	
	"My name is Andy" 'a'	2	
	"WELCOME to CSE, everyone" 'E'	6	
10.	Write a program in C to check whether a string is	s a palindrome or not.	**

	Sample Input	Sample Output	
	"My name is andy"	no	
	"madam"	yes	
11.	Write a program in C to add the digits in a string.		**
	Sample Input	Sample Output	
	"I am 20 years old"	2	
	"Abc 123 7&*&*"	13	
12.	Write a program in C to count occurrences of a w	vord in a string.	***
	Sample Input	Sample Output	
	"I liked the story about the sad giant" "the"	2	
	"It is what it is" "it"	1	
13.	Write a program in C to remove all repeated characters in a string.		***
	Sample Input	Sample Output	
	"i like programming in C"	"i lkeprogamnC"	
	"My name is Andy"	"My nameisAd"	
14.	Write a program in C to find the maximum occur	ring character in a string.	***
	Sample Input	Sample Output	
	"Welcome to CSE"	E (or e)	
	"mmmttssarrrddd"	D (or d)	
	"mmmttssarrrDDd"	D (or d)	
15.	Write a program in C to reverse the words in a st	<mark>ring.</mark>	***

Sample Output	
"Andy is name My"	
"7&*&* 123 Abc"	
	"Andy is name My"