String Functions in C

What are strings?

A string in C (also known as C string) is an array of characters, followed by a NULL character. To represent a string, a set of characters are enclosed within double quotes (") or in other words a string is a sequence of characters terminated with a null character \o. For example:

char c[] = "c string";

When the compiler encounters a sequence of characters enclosed in the double quotation marks, it appends a null character $\setminus o$ at the end by default.

There are about 18 string functions provided by the "string.h" header file in C. They are :

strcat()	Concatenates str2 at the end of str1
strncat ()	Appends a portion of string to another
strcpy()	Copies str2 into str1
strncpy()	Copies given number of characters of one string to another
strlen ()	Gives the length of str1
strcmp()	Returns 0 if str1 is same as str2. Returns <0 if strl < str2. Returns >0 if str1 > str2

strcmpi ()	Same as strcmp() function. But, this function negotiates case. "A" and "a" are treated as same.
strchr ()	Returns pointer to first occurrence of char in str1
strrchr ()	last occurrence of given character in a string is found
strstr()	Returns pointer to first occurrence of str2 in str1
strrstr()	Returns pointer to last occurrence of str2 in str1
strdup()	Duplicates the string
strlwr ()	Converts string to lowercase
strupr ()	Converts string to uppercase
strrev()	Reverses the given string
strset()	Sets all character in a string to given character
strnset ()	It sets the portion of characters in a string to given character
strtok ()	Tokenizing given string using delimiter

String function programs of commonly used methods are :

1 - strlen()

2 - strcpy()

3 - strcat()

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4 - strcmp()

5 - strrev()

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6 - strlwr()

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7 - strupr()

8 - strcmpi()

9 - strncat()

10 - strncmp()

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11 - strncpy()

12 - strstr()