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Introduction to C String Functions

String functions form the backbone of any programming language

[\(https://www.educba.com/what-is-a-programming-language/\)](https://www.educba.com/what-is-a-programming-language/) as it tells you how a particular language is handling with strings. Handling strings mean that your programming language





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There are two kinds of functions, first is the library functions and the second are the custom-based functions. In the latter, you have the freedom to create your own function or a method and use them in your code as and when you feel like. Normally these functions are identified with empty parenthesis. In this c string function article, you will learn how to manipulate strings using C functions along with examples such as puts(), (https://www.educba.com/c-puts-function/) gets(), strlen(), etc. All string functions in C are available in the standard library "string.h".

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C language is created for developing system-based applications which are used to directly interact with the hardware devices such as kernels, drivers, etc. Basically for all system-related communication as it is a low-level system friendly programming language. C programming language (https://www.educba.com/career-in-c-programming/) is considered to be the base of all the programming languages which is also commonly called the procedural programming language, mid-level programming language, and structured programming language. It is specific to a machine i.e. it is machine-dependent and is comparatively faster to run. It is not that easy to understand though as it requires the basic programming knowledge and mindset.

Examples of String Functions in C

String function is easy to use. Here we will discuss how to use string function in C programming with the help of examples



1. printf().



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```
#include<stdio.h>

int main()
{
printf("Name: Hardik");
}
```

2. gets():

This function is used to get the input string from the user.

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```
#include<stdio.h>

int main()
{
    char name[30];
    printf("Enter name: ");
    gets(name);
}
```

3. puts():

This is the C language based function which is used to display the string on the console screen. This is different from the printf() function in the regard that puts() writes the string s and a newline to stdout i.e. it is only used to display the strings whereas the printf() is used to display all kinds of outputs to stdout.

e.g-

```
#include<stdio.h>

int main()
{
    char name[30];
    printf("Enter name: ");

    gets(name);
    puts(name);
}
```





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e.g-

```
char s[5]
```

5. scanf():

This is another string function popularly used in C language. It is used to read the characters till the time whitespace such as space, tab or a newline is encountered. In essence, this is used to read a string.

e.g-

```
#include <stdio.h>
int main()
{
    char name[20];
    printf("Enter name: ");
    scanf("%s", name);
}
```

6.strcpy(s1, s2):

This function is used to copy the contents of the string s2 into the primary string s1.

e.g-

```
#include <stdio.h>
```





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```
int len ;  
/* copy str1 into str3 */  
strcpy(str3, str1);  
}
```

7. strcat():

This function is used to concatenate the contents of string s2 after string s1.

e.g-

```
#include <stdio.h>  
#include <string.h>  
int main () {  
    char str1[12] = "Hello";  
    char str2[12] = "World";  
    char str3[12];  
    int len ;  
    strcat( str1, str2);  
}
```

8. Strlen():

As the name suggests, this function is used to calculate the length of the string.

e.g-

```
#include <stdio.h>
```





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```
int len ;  
len = strlen(str1);  
printf("strlen(str1) : %d\n", len );  
}
```

9. strrev():

This function is used to return the reversal of the string provided.

e.g-

```
#include<stdio.h>  
#include <string.h>  
int main(){  
char str[20];  
printf("Enter string: ");  
gets(str);  
printf("String is: %s",str);  
printf("\nReverse String is: %s",strrev(str));  
}
```

10. strcmp():

This function is used to compare the two strings and return 0 if both the strings are equal.

e.g-

```
#include<stdio.h>
```





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```

if(strcmp(str1,str2)==0)
printf("Strings :equal");
else
printf("Strings: not equal");
}

```

11. strupr():

This function is used to return the characters in the upper case.

e.g-

```

#include<stdio.h>
#include <string.h>
int main(){
char str[20];
gets(str);
printf("String is: %s",str);
printf("\nUpper String is: %s",strupr(str));
}

```

12. Strlwr():

As the name suggests, this function is used to return the characters of the string in the lower case.





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```
char str[20];
gets(str);
printf("String is: %s",str);
printf("\nUpper String is: %s",strlwr(str));
}
```

13. sizeof():

This function is used to return the size of the string i.e. the characters the string is capable to hold at a stretch.

e.g-

```
#include <stdio.h>
#include <string.h>
int main()
{
char str1[20] = "Hardik";
sizeof(str1)
}
```

14. strchr():

This function searches for the character in a particular string.

e.g-

```
#include <stdio.h>
```





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```
ret = strchr(str, ch);  
printf("String after |%c| is - |%s|\n", ch, ret);  
}
```

The output for the above code snippet is:

Output: String after |.| is – |.google.com|

15. strstr():

This function is used to search for a given string inside an already present string.

e.g-

```
#include <stdio.h>  
#include <string.h>  
int main()  
{  
    char inputstr[70] = "String Function in C at EduCBA";  
    printf ("Output string is: %s", strstr(inputstr, 'Edu'));  
}
```

The output for the above code snippet would be:

Output: EduCBA



There are many pre-built library functions in C programming language and it also provides you the option of creating your own custom function. Even if you do not want to create a function



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This has been a guide to C String Functions. Here we discussed how to use string function in C programming with the help of examples. You can also go through our other suggested articles to learn more–

1. [C Operators \(https://www.educba.com/c-operators/\)](https://www.educba.com/c-operators/)
2. [strcmp\(\) in C++ \(https://www.educba.com/strcmp-in-c-plus-plus/\)](https://www.educba.com/strcmp-in-c-plus-plus/)
3. [strcat\(\) in C \(https://www.educba.com/strcat-in-c/\)](https://www.educba.com/strcat-in-c/)
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