

Programs of String

C supports a wide range of functions that manipulate null-terminated strings –

Sr.No.	Function & Purpose
1	strcpy(s1, s2); Copies string s2 into string s1.
2	strcat(s1, s2); Concatenates string s2 onto the end of string s1.
3	strlen(s1); Returns the length of string s1.
4	strcmp(s1, s2); Returns 0 if s1 and s2 are the same; less than 0 if s1<s2; greater than 0 if s1>s2.
5	strchr(s1, ch); Returns a pointer to the first occurrence of character ch in string s1.
6	strstr(s1, s2); Returns a pointer to the first occurrence of string s2 in string s1.

The following example uses some of the above-mentioned functions –

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

int main () {

    char str1[12] = "Hello";
    char str2[12] = "World";
    char str3[12];
    int len ;
```

```

/* copy str1 into str3 */
strcpy(str3, str1);
printf("strcpy( str3, str1) : %s\n", str3 );

/* concatenates str1 and str2 */
strcat( str1, str2);
printf("strcat( str1, str2): %s\n", str1 );

/* total length of str1 after concatenation */
len = strlen(str1);
printf("strlen(str1) : %d\n", len );

return 0;
}

```

When the above code is compiled and executed, it produces the following result –

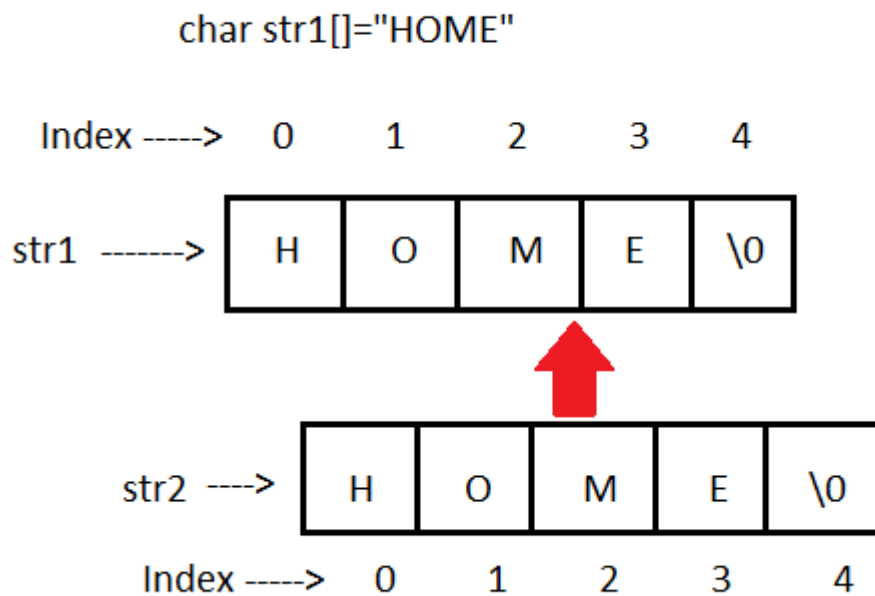
```

strcpy( str3, str1) : Hello
strcat( str1, str2): HelloWorld
strlen(str1) : 10

```

`strcpy()` function:

It copies the second string argument to the first string argument.



Example of `strcpy()` function:

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

int main()
{
    char s1[50], s2[50];

    strcpy(s1, "StudyTonight");
    strcpy(s2, s1);

    printf("%s\n", s2);

    return(0);
}
```

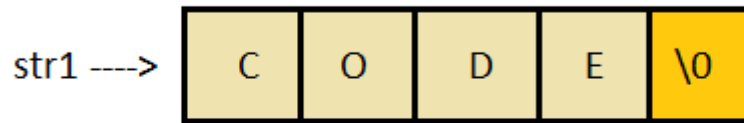
OUTPUT

StudyTonight

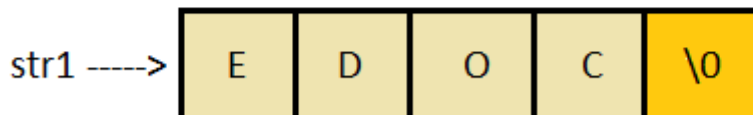
`strrev()` function:

It is used to reverse the given string expression.

Before



After `strrev(str1)`



Code snippet for `strrev()`:

```
#include <stdio.h>

int main()
{
    char s1[50];

    printf("Enter your string: ");
    gets(s1);

    printf("\nYour reverse string is: %s",strrev(s1));

    return(0);
}
```

OUTPUT

Enter your string: studytonight

Your reverse string is: thginotyduts