C LIBRARY - <STRING.H>

The **string.h** header defines one variable type, one macro, and various functions for manipulating arrays of characters.

Library Variables

Following is the variable type defined in the header string.h:

S.N.	Variable & Description
1	**size_t** This is the unsigned integral type and is the result of the **sizeof** keyword.

Library Macros

Following is the macro defined in the header string.h:

S.N.	Macro & Description
1	**NULL** This macro is the value of a null pointer constant.

Library Functions

Following are the functions defined in the header string.h:

S.N.	Function & Description
1	void *memchr*const void * str, int c, size_t n* Searches for the first occurrence of the character c *an unsigned char* in the first n bytes of the string pointed to, by the argument *str*.
2	int memcmp*const void * str1, const void * str2, size_t n* Compares the first n bytes of *str1* and *str2*.
3	void *memcpy*void * dest, const void * src, size_t n* Copies n characters from src to *dest*.
4	void *memmove*void * dest, const void * src, size_t n*

Another function to copy n characters from *str2* to *str1*.

5

void *memset*void * str, intc, size_t n*

Copies the character c *anunsignedchar* to the first n characters of the string pointed to, by the argument *str*.

6

char *strcat*char * dest, constchar * src*

Appends the string pointed to, by *src* to the end of the string pointed to by *dest*.

7

char *strncat*char * dest, constchar * src, size_t n*

Appends the string pointed to, by *src* to the end of the string pointed to, by *dest* up to n characters long.

8

char *strchr*constchar * str, intc*

Searches for the first occurrence of the character c *anunsignedchar* in the string pointed to, by the argument *str*.

9

int strcmp*constchar * str1, constchar * str2*

Compares the string pointed to, by *str1* to the string pointed to by *str2*.

10

int strncmp*constchar * str1, constchar * str2, size_t n*

Compares at most the first n bytes of *str1* and *str2*.

11

int strcoll*constchar * str1, constchar * str2*

Compares string *str1* to *str2*. The result is dependent on the LC_COLLATE setting of the location.

12

char *strcpy*char * dest, constchar * src*

Copies the string pointed to, by *src* to *dest*.

13

char *strncpy*char * dest, constchar * src, size_t n*

Copies up to n characters from the string pointed to, by *src* to *dest*.

14

size_t strcspn*constchar * str1, constchar * str2*

Calculates the length of the initial segment of str1 which consists entirely of characters not in str2.

15

char *strerror*interrnum*

Searches an internal array for the error number errnum and returns a pointer to an error message string.

16

size_t strlen*constchar * str*

Computes the length of the string str up to but not including the terminating null character.

17

char *strpbrk*constchar * str*1, *constchar * str2*

Finds the first character in the string *str1* that matches any character specified in *str2*.

18

char *strrchr*constchar * str, intc*

Searches for the last occurrence of the character c *anunsignedchar* in the string pointed to by the argument *str*.

19

size_t strspn*constchar * str*1, *constchar * str2*

Calculates the length of the initial segment of *str1* which consists entirely of characters in *str2*.

20

char *strstr*constchar * haystack, constchar * needle*

Finds the first occurrence of the entire string *needle* *notincludingtheterminatingnullcharacter* which appears in the string *haystack*.

21

char *strtok*char * str, constchar * delim*

Breaks string *str* into a series of tokens separated by *delim*.

22

size_t strxfrm*char * dest, constchar * src, size*t *n*

Transforms the first **n** characters of the string **src** into corrent locale and places them in the string **dest**.