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Introduction

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	<pre>size_t This is the unsigned integral type and is the result of the sizeof keyword.</pre>

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 tn) 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 tn) Compares the first n bytes of str1 and str2.
3	void *memcpy(void *dest, const void *src, size tn) Copies n characters from src to dest.
4	void *memmove(void *dest, const void *src, size tn) Another function to copy n characters from str2 to str1.
5	void *memset(void *str, int c, size tn) Copies the character c (an unsigned char) to the first n characters of the string pointed to by the arg ument str.
6	<u>char *strcat(char *dest, const char *src)</u> Appends the string pointed to by <i>src</i> to the end of the string pointed to by <i>dest</i> .
7	<u>char *strncat(char *dest, const char *src, size tn)</u> Appends the string pointed to by <i>src</i> to the end of the string pointed to by <i>dest</i> up to n characters long.

8	char *strchr(const char *str, int c) Searches for the first occurrence of the character c (an unsigned char) in the string pointed to by the argument <i>str</i> .
9	int strcmp(const char *str1, const char *str2) Compares the string pointed to by <i>str1</i> to the string pointed to by <i>str2</i> .
10	int strncmp(const char *str1, const char *str2, size tn) Compares at most the first n bytes of str1 and str2.
11	int strcoll(const char *str1, const char *str2) Compares string str1 to str2. The result is dependent on the LC_COLLATE setting of the location.
12	<u>char *strcpy(char *dest, const char *src)</u> Copies the string pointed to by <i>src</i> to <i>dest</i> .
13	char *strncpy(char *dest, const char *src, size t n) Copies up to n characters from the string pointed to by src to dest.
14	size tstrcspn(const char *str1, const char *str2) Calculates the length of the initial segment of str1 which consists entirely of characters not in str2.
15	<pre>char *strerror(int errnum) Searches an internal array for the error number errnum and returns a pointer to an error message string.</pre>
16	size tstrlen(const char *str) Computes the length of the string str up to but not including the terminating null character.
17	<u>char *strpbrk(const char *str1, const char *str2)</u> Finds the first character in the string <i>str1</i> that matches any character specified in <i>str2</i> .
18	<u>char *strrchr(const char *str, int c)</u> Searches for the last occurrence of the character c (an unsigned char) in the string pointed to by the argument <i>str</i> .
19	size tstrspn(const char *str1, const char *str2) calculates the length of the initial segment of <i>str1</i> which consists entirely of characters in <i>str2</i> .
20	<u>char *strstr(const char *haystack, const char *needle)</u> Finds the first occurrence of the entire string <i>needle</i> (not including the terminating null character) which appears in the string <i>haystack</i> .
21	char *strtok(char *str, const char *delim) Breaks string str into a series of tokens separated by delim.
22	size tstrxfrm(char *dest, const char *src, size tn) Transforms the first n characters of the string src into corrent locale and place them in the string dest.