

C LIBRARY FUNCTION - MEMCHR

http://www.tutorialspoint.com/c_standard_library/c_function_memchr.htm

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Description

The C library function **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**.

Declaration

Following is the declaration for memchr function.

```
void *memchr(const void *str, int c, size_t n)
```

Parameters

- **str** -- This is the pointer to the block of memory where the search is performed.
- **c** -- This is the value to be passed as an int, but the function performs a byte per byte search using the unsigned char conversion of this value.
- **n** -- This is the number of bytes to be analyzed.

Return Value

This function returns a pointer to the matching byte or NULL if the character does not occur in the given memory area.

Example

The following example shows the usage of memchr function.

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

int main ()
{
    const char str[] = "http://www.tutorialspoint.com";
    const char ch = '.';
    char *ret;

    ret = memchr(str, ch, strlen(str));

    printf("String after [%c] is - %s\n", ch, ret);

    return(0);
}
```

Let us compile and run the above program that will produce the following result:

```
String after . is - .tutorialspoint.com |
Loading [MathJax]/jax/output/HTML-CSS/jax.js
```