

C library function - memcpy()

Description

The C library function **void *memcpy(void *dest, const void *src, size_t n)** copies **n** characters from memory area **src** to memory area **dest**.

Declaration

Following is the declaration for memcpy() function.

```
void *memcpy(void *dest, const void * src, size_t n)
```

Parameters

- **dest** – This is pointer to the destination array where the content is to be copied, type-casted to a pointer of type void*.
- **src** – This is pointer to the source of data to be copied, type-casted to a pointer of type void*.
- **n** – This is the number of bytes to be copied.

Return Value

This function returns a pointer to destination, which is str1.

Example

The following example shows the usage of memcpy() function.

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

int main () {
    const char src[50] = "http://www.tutorialspoint.com";
    char dest[50];
    strcpy(dest, "Hellooo!!");
    printf("Before memcpy dest = %s\n", dest);
    memcpy(dest, src, strlen(src)+1);
    printf("After memcpy dest = %s\n", dest);

    return(0);
}
```

[Live Demo](#)

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

```
Before memcpy dest = Heloooo!!  
After memcpy dest = http://www.tutorialspoint.com
```