

C LIBRARY MACRO - NULL

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

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Description

The C library Macro **NULL** is the value of a null pointer constant. It may be defined as **(void * 0)**, **0** or **0L** depending on the compiler vendor.

Declaration

Following may be the declaration for NULL Macro depending on the compiler.

```
#define NULL ((char *)0)

or

#define NULL 0L

or

#define NULL 0
```

Parameters

- NA

Return Value

- NA

Example

The following example shows the usage of NULL Macro.

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

int main ()
{
    FILE *fp;

    fp = fopen("file.txt", "r");
    if( fp != NULL )
    {
        printf("Opend file file.txt successfully\n");
        fclose(fp);
    }

    fp = fopen("nofile.txt", "r");
    if( fp == NULL )
    {
        printf("Could not open file nofile.txt\n");
    }

    return(0);
}
```

Assuming we have an existing file **file.txt** but **nofile.txt** does not exist. Let us compile and run the above program that will produce the following result –

```
Opend file file.txt successfully
Could not open file nofile.txt
```

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