

# C LIBRARY FUNCTION - WCTOMB

[http://www.tutorialspoint.com/c\\_standard\\_library/c\\_function\\_wctomb.htm](http://www.tutorialspoint.com/c_standard_library/c_function_wctomb.htm)

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## Description

The C library function **int wctomb***char \* str, wchar\_t wchar* function converts the wide character **wchar** to its multibyte representation and stores it at the beginning of the character array pointed to by **str**.

## Declaration

Following is the declaration for wctomb function.

```
int wctomb(char *str, wchar_t wchar)
```

## Parameters

- **str** -- This is the pointer to an array large enough to hold a multibyte character,
- **wchar** -- This is the wide character of type wchar\_t.

## Return Value

- If str is not NULL, the wctomb function returns the number of bytes that have been written to the byte array at str. If wchar cannot be represented as a multibyte sequence, -1 is returned.
- If str is NULL, the wctomb function returns non-zero if the encoding has non-trivial shift state, or zero if the encoding is stateless.

## Example

The following example shows the usage of wctomb function.

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

int main()
{
    int i;
    wchar_t wc = L'a';
    char *pmbnull = NULL;
    char *pmb = (char *)malloc(sizeof(char));

    printf("Converting wide character:\n");
    i = wctomb(pmb, wc);
    printf("Characters converted: %u\n", i);
    printf("Multibyte character: %.1s\n", pmb);

    printf("Trying to convert when target is NULL:\n");
    i = wctomb(pmbnull, wc);
    printf("Characters converted: %u\n", i);
    /* this will not print any value */
    printf("Multibyte character: %.1s\n", pmbnull);

    return(0);
}
```

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

```
Converting wide character:
Characters converted: 1
Multibyte character: a
Trying to convert when target is NULL:
```

Characters converted: 0

Multibyte character:

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