

C LIBRARY FUNCTION - FLOOR

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

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Description

The C library function **double floordoublex** returns the largest integer value less than or equal to **x**.

Declaration

Following is the declaration for floor function.

```
double floor(double x)
```

Parameters

- **x** – This is the floating point value.

Return Value

This function returns the largest integral value not greater than x.

Example

The following example shows the usage of floor function.

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

int main ()
{
    float val1, val2, val3, val4;

    val1 = 1.6;
    val2 = 1.2;
    val3 = 2.8;
    val4 = 2.3;

    printf("Value1 = %.1lf\n", floor(val1));
    printf("Value2 = %.1lf\n", floor(val2));
    printf("Value3 = %.1lf\n", floor(val3));
    printf("Value4 = %.1lf\n", floor(val4));

    return(0);
}
```

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

```
Value1 = 1.0
Value2 = 1.0
Value3 = 2.0
Value4 = 2.0
```

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