

C++ Math floor()

It rounds the value to the nearest integer which is not greater than the given value.

For example:

```
floor(8.2)=8.0;  
floor(-8.8)=-9.0;
```

Syntax

Suppose a number is 'x'. Syntax would be :

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

Parameter

x : It is the value that rounds to the nearest integer.

Return value

It returns the value that round to the nearest integer not greater than x.

Example 1

Let's see a simple example by considering a positive value.

```
#include <iostream>  
#include<math.h>  
  
using namespace std;  
  
int main()
```

```
{  
    float x=7.8;  
    std::cout << "Initial value of x is : " << x<<std::endl;  
    cout<<"Now, the value of x is : "<<floor(x);  
    return 0;  
}
```

Output:

```
Initial value of x is : 7.8  
Now, the value of x is :7
```

Example 2

Let's see a simple example by considering a negative value.

```
#include <iostream>  
#include<math.h>  
using namespace std;  
int main()  
{  
    float x=-10.2;  
    std::cout << "Initial value of x is : " << x<<std::endl;  
    cout<<"Now, the value of x is : "<<floor(x);  
    return 0;  
}
```

Output:

```
Initial value of x is : -10.2  
Now, the value of x is :-11
```

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