How to align the string for display in C++?

[intro]

There are several flags to align the string for display in C++.

[P.S.]

NOTE that

It only takes effect on the string which has to be filled with.

[Example]

We set width as 6.

And we print the number 77 which holds two digits.

Thus, the left four digit must be filled with.

Such in this situation, the following flags takes effect.

More examples on the following code.

[flag]

|  |  |
| --- | --- |
| Flag | align |
| left | left |
| internal | right (but the negation symbol may be placed at the right if it exists) |
| right | Right |

[code]

#include <iostream>

using namespace std;

void PrintNumber(int number)

{

std::cout.width(6); cout << std::internal << number << endl;

std::cout.width(6); cout << std::left << number << endl;

std::cout.width(6); cout << std::right << number << endl;

}

int main ()

{

int val=0;;

cout<<"Enter a value:"<<endl;

cin>>val;

PrintNumber(val);

return 0;

}

[input 1]

22

[result 1]

Enter a value:

22

22

22

[input 2]

-732

[result 2]

Enter a value:

- 732

-732

-732

[ref]

<https://cplusplus.com/reference/ios/right/>