How to deactivate std::ios settings such as std::ios::showbase in C++?

[intro]

To deactivate std::ios settings, there is a method called unsetf in iostream cout.

For example, if I want to deactivate std::ios::showbase, I can write this statement.

std::cout.unsetf ( std::ios::showbase );

[P.S.]

Similarly, to activate std::ios settings, there is a method called setf in iostream cout.

For example, if I want to activate std::ios::showbase, I can write this statement.

std::cout.setf ( std::ios::showbase );

[namespace]

std::ios

[library]

<iostream>

[code]

#include <iostream>

//#include <iomanip> // NOT needed

using namespace std;

void PrintNumber(int number)

{

std::cout.setf ( std::ios::hex, std::ios::basefield );

std::cout.setf ( std::ios::showbase ); // activate showbase

std::cout << number << endl;

std::cout.unsetf ( std::ios::showbase ); // deactivate showbase

std::cout << number << endl;

}

int main ()

{

int val=0;

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

cin>>val;

PrintNumber(val);

return 0;

}

[input]

30

[result]

Enter a value:

0x1e

1e

[ref]

<https://cplusplus.com/reference/ios/ios_base/unsetf/>