How to show a bool value with bool type in C?

For example, show “false” instead of 0.

[intro]

You can activate the flag boolalpha using the following statement.

cout<<std::boolalpha;

To deactivate the flag boolalpha using the following statement.

cout<<std::noboolalpha;

[namespace]

std

[library]

<iostream>

[code]

#include <iostream>

#include <string>

using namespace std;

int main ()

{

bool b = true;

cout << std::boolalpha << b << endl;

cout << std::noboolalpha << b << endl;

cout<<"------"<<endl;

b=false;

cout << std::boolalpha << b << endl;

cout << std::noboolalpha << b << endl;

cout<<"------"<<endl;

int val=0;

cout << std::boolalpha << val << endl;

cout << std::boolalpha << (bool)val << endl;

cout << std::noboolalpha << val << endl;

cout<<"------"<<endl;

val=1;

cout << std::boolalpha << val << endl;

cout << std::boolalpha << (bool)val << endl;

cout << std::noboolalpha << val << endl;

cout<<"------"<<endl;

char c='\0';

cout << std::boolalpha << c << endl;

cout << std::boolalpha << (bool)c << endl;

cout << std::noboolalpha << c << endl;

cout<<"------"<<endl;

c='a';

cout << std::boolalpha << c << endl;

cout << std::boolalpha << (bool)c << endl;

cout << std::noboolalpha << c << endl;

cout<<"------"<<endl;

return 0;

}

[result]

true

1

------

false

0

------

0

false

0

------

1

true

1

------

false

------

a

true

a

------

[ref]

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