not2

[intro]

not2 negates binary expressions.

Take the following code for example.

The statement

will return the value of first mismatch of foo and bar. That is,

the statement will return the value of first index whose two values foo[index] and bar[index] are NOT same.

The statement

will return the value of first match of foo and bar. That is,

the statement will return the value of first index whose two values foo[index] and bar[index] are same.

[P.S.]

It is important when you run the following code in the following link (which is provided by CPlusPlus).

<https://cpp.sh/>

You must pay a lot of attention on this compiler, or you may stuck in the compiler error for a long time.

I’m lucky to solve it within a few minutes.

Hope this notice can help you.

I recommend you to use C++ 17 compiler to run this code.

At present, I’ve tried to use C++ 20 compiler, then I got this error.

main.cpp:14:50: error: no member named 'not1' in namespace 'std'

int cx = std::count\_if (values, values+5, std::not1(IsOdd()));

However, when I’ve tried to use C++ 17, C++ 14, C++ 11, C++ 98 compiler, I did NOT get any compiler error.

I think the reason is the C++ 20 compiler does NOT support std::not1 function.

(More details about how to change compiler version on my note Cplusplus\_ChangeOptions.docx

which has been published in GitHub. At present, it is located in [CPP](https://github.com/40843245/CPP)/[website](https://github.com/40843245/CPP/tree/main/website)/[manual](https://github.com/40843245/CPP/tree/main/website/manual)/**Cplusplus**/)

[namespace]

std

[library]

<functional>

[code]

#include <iostream>

#include <functional>

#include <algorithm>

#include <utility>

int main ()

{

int foo[] = {10,20,30,40,50};

int bar[] = {0,15,30,45,60};

std::pair<int\*,int\*> firstmatch,firstmismatch;

firstmismatch = std::mismatch (foo, foo+5, bar, std::equal\_to<int>());

firstmatch = std::mismatch (foo, foo+5, bar, std::not2(std::equal\_to<int>()));

std::cout << "First mismatch in bar is " << \*firstmismatch.second << '\n';

std::cout << "First match in bar is " << \*firstmatch.second << '\n';

return 0;

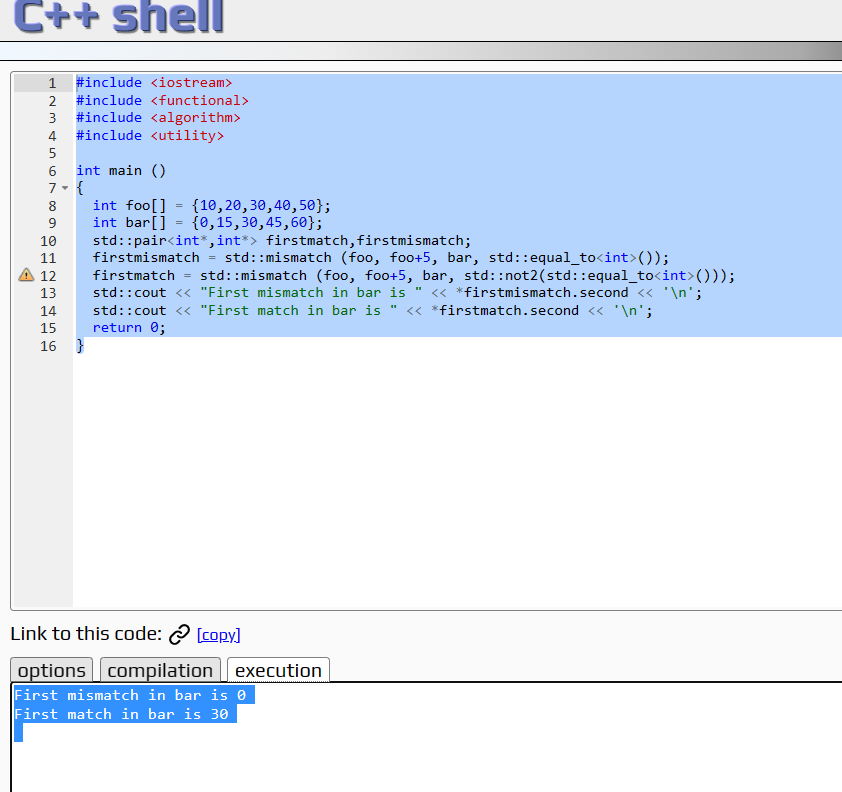
}

[result]

First mismatch in bar is 0

First match in bar is 30

[screenshot]



[ref]

<https://cplusplus.com/reference/functional/not2/>