Why __gcd() is throwing error in macOS mojave?

Asked 2 years, 11 months ago Active 6 months ago Viewed 3k times

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```
#include <iostream>
#include <vector>
#include <algorithm>
#include <numeric>
using namespace std;
int main() {
    int n;
    cin >> n;
    vector<int> a(n);
    for(int i = 0; i < n; ++i)
        cin >> a[i];
    int ans = a[0];
    for(int i = 1; i < n; ++i)
       ans = \underline{gcd}(ans, a[i]);
    cout << ans << endl;
    return 0;
}
```

It is throwing the following error:

error: static assert failed due to requirement '!is signed::value'

note: in instantiation of function template specialization 'std:: 1:: gcd' requested here ans = __gcd(ans, a[i]);

I am using command g++ -std=c++17 which worked for every program except this one.

This code is working without error on code.hackerearth.com online compiler which uses g++ 5.4.0

EDIT: Removed bits/stdc++.h header and included required headers only.

After removing also the same problem is happening.

The SAME code is running properly in online ide. Link of one such ide is **ONLINE IDE**

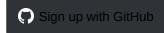
Using their c++ compiler and function __gcd(a, b) doesn't give any error but, when I change it to gcd(a, b) in the same ide, it does give error that this function definition is not found.

When I run the same code in my local machine, everything happens in just the opposite way. gcd(a, b) doesn't work while gcd(a, b) works.

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3 __gcd is private, don't use it... What is not clear in the error message? It only works with unsigned types. − Marc Glisse Oct 20 '18 at 13:30 ✓

Which compiler are you using? g++ or clang++? - user202729 Oct 20 '18 at 13:30

- 3 Please read Why should I not #include <bits/stdc++.h>? Some programmer dude Oct 20 '18 at 13:32
- 2 @vivek: that is unfortunate. Still no excuse to use a implementation-private function MSalters Oct 21 '18 at 9:40

@vivek: the implementation-private part refers to __gcd. Double underscores signify nonstandard functions for implementation-internal use. The header was another problem – MSalters Oct 24 '18 at 13:34

3 Answers

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Don't use bit/c++.h, it's a private header.

Use proper C++ functions: https://en.cppreference.com/w/cpp/numeric/gcd 2

They support signed integers.

```
4
       #include <iostream>
       #include <vector>
       #include <numeric>
       using namespace std;
       int main() {
       int n;
       cin >> n;
       vector<int> a(n);
       for(int i = 0; i < n; ++i)
           cin >> a[i];
       int ans = a[0];
       for(int i = 1; i < n; ++i)
          ans = gcd(ans, a[i]);
       cout << ans << endl;
       return 0;
       }
      works with clang++ -std=c++17.
```

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edited Oct 20 '18 at 13:36

answered Oct 20 '18 at 13:32 Matthieu Brucher **20.2k** 7 32 52

This does not answer the question. – user202729 Oct 20 '18 at 13:32

Besides, the function is from c++17 only. – user202729 Oct 20 '18 at 13:33

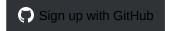
Which is available on Mojave. – Matthieu Brucher Oct 20 '18 at 13:33

This code is working without error on code.hackerearth.com online compiler which uses g++ 5.4.0 Anonymous Oct 20 '18 at 15:31

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As the other answer says, use the standard std::gcd instead of a non-standard $_gcd$, if possible.



That said, the error means that __gcd only works on unsigned integers. Change the types of your variables from int to unsigned int.



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answered Mar 31 at 15:18

HolyBlackCat

52k 7 89 147



```
int gcd(int a, int b){
   if (b == 0)
      return a;
   return gcd(b, a % b);
}
```



As in my mac '__gcd()' is also not working and showing that "use of undeclared identifier' so I have to predefine this function.

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edited Mar 31 at 15:25

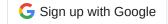
cigien , **52.6k** 11 44 82 answered Dec 20 '20 at 4:38

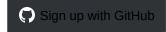


Aayush Shah 346 3 10

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