

CSCI851 Lab1

Part One

```
cd /Users/maywzh/Workspace/ji_coursenotes/2020fall/CSCI851/assignment/ass1
mkdir code
cd code
ls -la
```

- clang

```
→ code git:(master) x ls -al
total 920
drwxr-xr-x  12 maywzh  staff    384 Sep 30 11:43 .
drwxr-xr-x   5 maywzh  staff    160 Sep 30 03:00 ..
-rwxr-xr-x   1 maywzh  staff 23032 Sep 30 11:43 Hello
-rw-r--r--   1 maywzh  staff   101 Sep 30 02:55 Hello.cpp
-rw-r--r--@  1 maywzh  staff   481 Sep 30 11:44 ass1.md
-rw-r--r--   1 maywzh  staff 50671 Sep 30 03:01 ass1.pdf
-rw-r--r--   1 maywzh  staff     0 Sep 30 02:57 ass1.sh
-rw-r--r--   1 maywzh  staff 156993 Sep 30 11:42 cc.png
-rw-r--r--   1 maywzh  staff  59134 Sep 30 11:40 cccom.png
-rw-r--r--   1 maywzh  staff  33720 Sep 30 11:42 clang.png
-rw-r--r--   1 maywzh  staff  30628 Sep 30 11:43 g++.png
-rw-r--r--   1 maywzh  staff  91422 Sep 30 11:42 gcc.png
```

Part Two

```
#include <iostream>
using namespace std;
int main() {
    cout << "Hello World!" << endl;
    return 0;
}
```

```
cc Hello.cpp -o Hello
clang++ -std=c++1z Hello.cpp -o Hello
./Hello
```

- clang

```
code git:(master) x clang++ -std=c++1z Hello.cpp -o Hello
code git:(master) x ./Hello
Hello World!
code git:(master) x █
```

- CC

```
→ code git:(master) x cc -o Hello Hello.cpp
Undefined symbols for architecture x86_64:
"std::__1::locale::use_facet(std::__1::locale::id&) const", referenced from:
    std::__1::ctype<char> const& std::__1::use_facet<std::__1::ctype<char>> >(std::__1::locale const&) in Hello-bc134f.o
"std::__1::ios_base::getloc() const", referenced from:
    std::__1::basic_ios<char, std::__1::char_traits<char>>>::widen(char) const in Hello-bc134f.o
"std::__1::basic_string<char, std::__1::char_traits<char>, std::__1::allocator<char>>>::__init(unsigned long, char)", referenced from:
    std::__1::basic_string<char, std::__1::char_traits<char>, std::__1::allocator<char>>>::basic_string(unsigned long, char) in Hello-bc134f.o
"std::__1::basic_string<char, std::__1::char_traits<char>, std::__1::allocator<char>>>::basic_string()", referenced from:
    std::__1::ostreambuf_iterator<char, std::__1::char_traits<char>> > std::__1::__pad_and_output<char, std::__1::char_traits<char>> >(std::__1::ostreambuf_iterator<char, std::__1::char_traits<char>> >, char) in Hello-bc134f.o
"std::__1::basic_ostream<char, std::__1::char_traits<char>>>::put(char)" referenced from:
```

- gcc

```
→ code git:(master) x gcc -o Hello Hello.cpp
Undefined symbols for architecture x86_64:
"std::__1::locale::use_facet(std::__1::locale::id&) const", referenced from:
    std::__1::ctype<char> const& std::__1::use_facet<std::__1::ctype<char>> >(std::__1::locale const&) in Hello-22b5f2.o
"std::__1::ios_base::getloc() const", referenced from:
    std::__1::basic_ios<char, std::__1::char_traits<char>>>::widen(char) const in Hello-22b5f2.o
"std::__1::basic_string<char, std::__1::char_traits<char>, std::__1::allocator<char>>>::__init(unsigned long, char)", referenced from:
```

- g++

```
→ code git:(master) x g++ -o Hello Hello.cpp
→ code git:(master) x ./Hello
Hello World!
→ code git:(master) x █
```