

1.

```
8
9 #include <iostream>
10
11 int main() {
12     std::cout << "my favorite course after week 1 is [ECE 150].";
13     std::cout << std::endl;
14     return 0;
15 }
16
```

2.

```
make all
Building file: ../src/a00Q02.cpp
Invoking: Cygwin C++ Compiler
g++ -O0 -g3 -Wall -c -fmessage-length=0 -MMD -MP -MF"src/a00Q02.d" -MT"src/a00Q02.o" -o "src/a00Q02.o" "../src/a00Q02.cpp"
../src/a00Q02.cpp: In function 'int main()':
../src/a00Q02.cpp:12:7: error: 'cout' is not a member of 'std'
    std::cout << "Hello World!";
    ^~~~~
../src/a00Q02.cpp:13:7: error: 'cout' is not a member of 'std'
    std::cout << std::endl;
    ^~~~~
../src/a00Q02.cpp:13:20: error: 'endl' is not a member of 'std'
    std::cout << std::endl;
    ^~~~~
make: *** [src/subdir.mk:20: src/a00Q02.o] Error 1
16:16:19 Build Failed. 4 errors, 0 warnings. (took 486ms)
```

The compiler cannot find 'cout' and 'endl' in 'std'

3.

```
1 #include <iostream>
2
3 int main();
4
5 int days_in_week(){
6     std::cout << "7 days in a week.";
7     std::cout << std::endl;
8     return 0;
9 }
10
11 int main(){
12     std::cout << "Hello World!";
13     std::cout << std::endl;
14     days_in_week();
15     return 0;
16 }
17
```

4. these statements will be operated in the order of 2 1 4 3 5.

5. Function declaration is to tell the compiler there is a function has this name.

Function definition is the actual body of the function.

6.

123

1.23

'a'

"Hello World!"

True

7.

```
3
} #include <iostream>
}
1 int main() {
2     std::cout << "\\ \\ \\'\"";
3     std::cout << std::endl;
4     return 0;
5 }
7
```

8.

std::endl can flush the output buffer and make the program more stable.

9.

```
1 #include <iostream>
2
3 int main();
4
5 int main(){
6     std::cout << "A\t1\t\t\t\n"
7               << "Hgah\t3\t150\n"
8               << "\"X\" \t\t\tD\n";
9     std::cout << std::endl;
10
11 }
12
```

10.

No. Because keyword Identifiers are reserved with special meaning. a function prototype cannot be defined by keyword identifiers.

11.

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12.

1. it will return an error of "division by zero"
2. it will print 10
3. it will print 10

13. & 14.

```
1  #include <iostream>
2
3  int main();
4
5  int main(){
6      int m = 3;
7      int x = 4;
8      int b = 5;
9
10     std::cout << "The output of mx+b is:"
11                << m*x+b
12                << std::endl;
13
14 }
15
```

15.

"Std::cout << a*x*x*x + b*x*x + 3; " works

16.

```

3 #include <iostream>
3
1 void print_circle_info(float radius);
2
3
1⊖ int main() {
5     print_circle_info(5.3);
5     return 0;
7 }
3
3⊖ void print_circle_info(float radius){
3 |
1     std::cout << "the diameter of the circle is "
2         << 2*radius << "\n";
3     std::cout << "the circumference of the circle is "
4         << 2*3.14*radius << "\n";
5     std::cout << "the area of the circle is "
5         << 3.14*radius*radius << "\n";
7     std::cout << std::endl;
3     return;
3 }
~

```

17. & 18.

```

~ #include <iostream>
~
~ int main();
~
⊖ int main(){
~
~     for(int i=0; i <7; i++){
~         for(int j=0; j<8; j++){
~             if ((i+j)%2==0){
~                 std::cout << "o ";
~             }else{
~                 std::cout << "+ ";|
~             }
~         }
~         std::cout << "\n";
~     }
~
~     return 0;
~ }
~

```

19. & 20

```
2
3 #include <iostream>
4
5 double func(double x);
6
7 int main() {
8     std::cout << func(3.5);
9     std::cout << std::endl;
10    return 0;
11 }
12
13 double func(double x){
14     double m = 2.34;
15     double b = 532.2;
16     return m * x + b;
17 }
18 |
```

21.

```
#include <iostream>

double func(double x, double m, double b);

int main() {

    return 0;
}

double func(double x, double m, double b){
    return m * x + b;
}
|
```

22. sorry I don't want to input them.

23. to prevent printing the connected word "EliberthGilthoniel,"

24. it will print a new line (has the same function of "\n") and flush the output buffer

25.

```
2
3 #include <iostream>
4
5 int main() {
6     std :: cout << (2+35+320+1+5+32+9)/7;
7     std :: cout << std::endl;
8     return 0;
9 }
```

It will print 57.

26.

```
1
2
3 #include <iostream>
4
5 int main() {
6     std :: cout << (2+35+320+1+5+32.00+9)/7;
7     std :: cout << std::endl;
8     return 0;
9 }
```

It will print 57.7143 because after adding 32.00, the type of data will be upcasted to double, so that the result will be double.