CPP Tracing 7 (Header Files 2)

We continue to tracing some codes :

```
#include "gammal.h"
int main() {
    gammal x("C");
    //calling a class from gammal.h and creating an object
    x.membership_type();
    //calling a methods
    x.upgrade();
}
```

In this case, we do not find any include for well-known libraries such as iostream or string any of these libraries, but in fact we will open the h.gammal file that we have included, we will find it as follows:

```
#include <iostream>
#include <string>
using namespace std;
//the libraries are included in gammal.h
class gammal {
            private:
            string membership;
```

```cpp
        public:
        gammal(string x) {
        //constructor
        if (x == "C" || x == "Year")
        membership = x;
        else
        cout << "Error" << endl;
        }
//methods
void membership_type() {
        cout << membership << endl;
        }
void upgrade() {
        if (membership == "C")
        cout << "upgrade to yearly member";
        else if (membership == "Year")
        cout << "upgrade to lifetime" << endl;
        }
};
```

output:

C

upgrade to yearly member