

```
1 #include <iostream>
2 #include <fstream>
3 #include <vector>
4
5 #include "Celebrity.h"
6 using namespace std;
7
8
9 vector<Celebrity> celebs;
10
11 void loadCelebs();
12
13 int main() {
14     srand(time(0));
15     loadCelebs();
16
17     int score = 0;
18
19     chrono::high_resolution_clock::time_point start
    = chrono::high_resolution_clock::now();
20     chrono::high_resolution_clock::time_point end =
    chrono::high_resolution_clock::now();
21
22     int celebIndex = rand() % celebs.size();
23
24     while(chrono::duration_cast<chrono::seconds>(end
    - start).count() < 30) {
25         string input;
26         string clue = celebs[celebIndex].getClue();
27         string answer = celebs[celebIndex].getName();
28         cout << clue << endl << "Enter your guess: ";
29         getline(cin, input);
30         if (input == answer) {
31             cout << "Correct!" << endl;
32             celebs.erase(celebs.begin() + celebIndex
    );
33             celebIndex = rand() % celebs.size();
34             score++;
```

```
35         } else {
36             cout << "Wrong!" << endl;
37         }
38
39         end = chrono::high_resolution_clock::now();
40
41     }
42
43     cout << "GAME OVER!" << endl;
44     cout << "Your Score: " << score << endl;
45     return 0;
46 }
47
48 void loadCelebs() {
49     ifstream f("celebrities.txt");
50     while(!f.eof()) {
51         string name, clue;
52         getline(f, name, ':');
53         getline(f, clue);
54         celebs.push_back({name, clue});
55     }
56 }
```

```
1 //
2 // Created by Kelly Ho on 9/1/24.
3 //
4
5 #ifndef CELEBRITY_H
6 #define CELEBRITY_H
7 #include <string>
8 #include <vector>
9
10 using namespace std;
11
12 class Celebrity {
13     public:
14         Celebrity(string name, string clues);
15         string getName();
16         string getClue();
17         ~Celebrity();
18     private:
19         string name;
20         vector<string> clues;
21         vector<string> sepClues(string clues);
22
23 };
24
25
26
27 #endif //CELEBRITY_H
28
```

```
1 //
2 // Created by Kelly Ho on 9/1/24.
3 //
4
5 #include "Celebrity.h"
6
7 #include <iostream>
8 #include <ostream>
9 #include <string>
10 #include <vector>
11 using namespace std;
12
13 Celebrity::Celebrity(string n, string c) {
14     name = n;
15     clues = sepClues(c);
16 }
17
18 string Celebrity::getName() {
19     return name;
20 }
21
22 string Celebrity::getClue() {
23     if(clues.size() == 0) {
24         return "no more clues";
25     }
26
27     int index = rand() % clues.size();
28     string clue = clues.at(index);
29     clues.erase(clues.begin()+index);
30     return clue;
31 }
32
33 vector<string> Celebrity::sepClues(string c) {
34     vector<string> result;
35     int start = 0;
36     for(int i = 0; i < c.size(); i++) {
37         if(c.at(i) == ',') {
38             string subClue = c.substr(start, i-start
```

```
38 );  
39         result.push_back(subClue);  
40         start = i+1;  
41     }  
42  
43     }  
44     result.push_back(c.substr(start));  
45     return result;  
46 }  
47  
48  
49 Celebrity::~Celebrity() {  
50  
51 }  
52
```

```
1 cmake_minimum_required(VERSION 3.14)
2 project(Celebrities)
3
4 set(CMAKE_CXX_STANDARD 14)
5 set(CMAKE_RUNTIME_OUTPUT_DIRECTORY ${
  CMAKE_CURRENT_SOURCE_DIR})
6
7
8 add_executable(Celebrities main.cpp
9               Celebrity.cpp
10              Celebrity.h)
```

- 1 Lamont Quattlebaum:bald,dean of students,married to Wendy
- 2 Kevin Morris:Leah's dad,Ryan's dad,teaches this class ,does NYT crossword puzzle daily
- 3 Oprah Winfrey:famous talk show host,gave everyone a car
- 4 Santa Claus:lives at the North Pole,always checking a list,gives kids presents,goes down chimneys,drives a sleigh pulled by reindeer,employs many elves
- 5 Madeleine Sophie Barat:founded Sacred Heart network, lived in France,she's a saint
- 6 Ada Lovelace:considered first computer programmer, worked on Analytical Engine with Charles Babagge in 1840s
- 7 Moana:restores the heart of Te Fiti,sails across ocean to find demigod Maui,daughter of chief of Motunui,attacked by Kakamora,tricks giant crab Tamatoa to retrieve magical hook
- 8 Kayla Holman:makes lots of cookies,teaches APCSA
- 9 Peyton Fu-Sarosa:plays Varsity Volleyball,will join robotics,went on a Germany exchange
- 10 Sophie Cheung:runs very fast, takes ATMH,was called Sophia on the news
- 11 Katherine Ware:takes ATCS,has cool outfits
- 12