

```
1  #include <iostream>
2  #include <fstream>
3  #include "Dancer.h"
4  using namespace std;
5
6
7
8
9
10 int main() {
11     const int sponsters = 12;
12     Dancer d[sponsters];
13     ifstream fin;
14     ofstream fout;
15     ofstream foutid;
16     fin.open(_Filename: "Dance.info");
17     fout.open(_Filename: "Dance class Assinment Data.txt");
18     foutid.open(_Filename: "Dance Class sorted list");
19     if (!fin.is_open())
20     {
21         cout << "The input file did not open" << endl;
22         return 0;
23     }
24     if (!fout.is_open())
25     {
26         cout << "The output file did not open" << endl;
27         return 0;
28     }
29     if (!foutid.is_open())
30     {
31         cout << "The output file did not open" << endl;
32     }
33
34     fout << "Original List:" << endl;
35
36     for (int i = 0; i < 12; i++)
37     {
38         d[i].read_val(&fin);
39     }
40
41     for (int i = 0; i < 12; i++)
42     {
43         d[i].print_val(&fout);
44     }
45
46     fout << "======" << endl;
47
48     d[1].sort_by_id(d, sponsters);
49     d[1].sort_by_rate(d, sponsters);
```

```
50
51     fout << "Sorted List:" << endl;
52
53     for (int i = 0; i < 12; i++)
54     {
55         d[i].print_val(&fout);
56     }
57
58     fout << "=====" << endl;
59
60     fout << sponsors << " Sponsors " << d[1].couple_counter(d, sponsors) <<
        " couples " << d[1].total_raised(d) << " total earned";
61     fout << endl;
62     fout << "=====" << endl;
63     d[1].u_id(d, &fout);
64     fout << "=====" << endl;
65     d[1].best_couple(d, &fout);
66     fout << "=====" << endl;
67
68     return 0;
69 }
```