

BLG252E - Object Oriented Programming

The 3rd Assignment

05.05.2014 – 13.05.2014, 23.00

In this assignment, you'll implement two classes; *Quote* and *Movie*. Each quote is a line from a movie. It has an owner who recites the line, and there's one and only one movie which it belongs to.

Movie has a single title and a list of quotes as attributes. You may use vector structure in STL library for the quote list. A quote can be inserted into a movie using '+' operator. However, this operation throws exception if movie and quote mismatch. Consider the following main function.

```
1 int main() {
2     Quote q1;
3     q1.set_quote("it's a trap!");
4     q1.set_owner("admiral ackbar");
5     q1.set_movie("return of the jedi");
6     Quote q2("eight year olds dude...", "walter sobchak", "the big lebowski");
7     Quote q3("if you want to survive out here, you've got to know where your towel is.");
8     q3.set_owner("ford prefect");
9     q3.set_movie("the hitchhiker's guide to the galaxy");
10    Quote q4("this will all end in tears.", "marvin", "the hitchhiker's guide to the galaxy");
11    Quote q5("what does marcellus wallace look like?", "jules winfield", "pulp fiction");
12    Movie m1;
13    m1.set_title("reservoir dogs");
14    Movie m2("the hitchhiker's guide to the galaxy");
15    Movie m3("the big lebowski");
16    try { m2 + q3; } catch(const char *m) { cout << m << endl; }
17    try { m2 + q4; } catch(const char *m) { cout << m << endl; }
18    try { m3 + q2; } catch(const char *m) { cout << m << endl; }
19    try { m1 + q5; } catch(const char *m) { cout << m << endl; }
20    m2.print();
21    return 0;
22 }
```

In the 19th line, since quote q5 which belongs to “Pulp Fiction” is added to movie m1 (“Reservoir Dogs”), exception is thrown in the type of “const char *”. The function above produces the output below.

```
aycan@aycan-asus ~/oop33
$ ./a.exe
insertion error: titles mismatch
if you want to survive out here, you've got to know where your towel is.
    <ford prefect - the hitchhiker's guide to the galaxy>
this will all end in tears.
    <marvin - the hitchhiker's guide to the galaxy>
```

Do not cheat – that's lame. Late submissions will not be accepted. Don't hesitate to ask any questions via mail (ataka@itu.edu.tr) or directly (office#4316). Since this is an easy assignment, try to get whatever you can get. If you have any trouble with the assignment, express it in human language. Don't use internet idioms from 5 years ago – that's also quite lame. Submit single cpp file through Ninova and state the important points in comment lines.