

## Homework 5

### Computer Programming (II) Spring Semester, 2024

Please modify the following program so that each line with (without) a comment outputs its comment (nothing, respectively):

```
#include <iostream>
using namespace std;

int main()
{
    const Shape *myShape = new Rectangle(5, 3);

    cout << myShape->area() << '\n'; // 15
    delete myShape;
    myShape = new IsoscelesTriangle(5, 3);
    cout << myShape->area() << '\n'; // 7.5
    delete myShape;
    myShape = nullptr;

    Rectangle herShape(6, 8);
    IsoscelesTriangle hisShape(5, 4);
    const Shape &yourShape = herShape;

    cout << yourShape.area() << '\n'; // 48

    const Shape &theirShape = hisShape;

    cout << theirShape.area() << '\n'; // 10
}
```

#### Additional requirements:

- Please leave the main function intact.
- Shape should have a pure virtual member function named area.
- Shape should have a virtual destructor.