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Philip Pesic
Week 6
September 25 2022
Week 6 Prog 2
Convert problems 3,5,6,7 in to template classes, of week 5.
Test each with Implicit int, float, double, long int.
//
// main.cpp
// Week 6 Prog 2
//
// Created by Pippo Pesic on 9/25/22.
//
//
#include <iostream>
using namespace std;
template <class T>
class Rectangle {
       T width, height;
 public:
       void set_values (T x,T y) {
       width = x;
```

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       height = y;
       };
       T area() {
       T answer = width * height;
       // complete this function so the code works
       return answer;
       }
};
int main () { // Use this driver program
 // Use set values function to set values
 Rectangle<float> rect1;
 rect1.set_values (5,6);
 cout << "area: " << rect1.area() << endl;</pre>
// Use set_values function to set values
 Rectangle < double > rect2;
 rect2.set values (3,4);
 cout << "area: " << rect2.area() << endl;
 cout << "Philip pesic 9/25/22" << endl;
```

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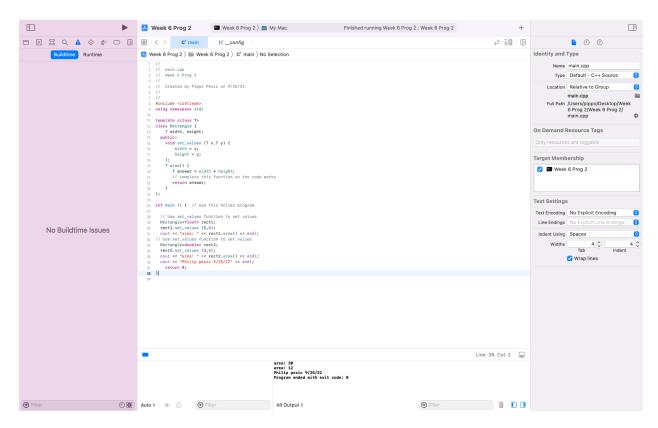
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return 0;

}



I learned: how to write templates and template classes

```
rectangle

-x, y: T
-area: T

+setValues (x, y: T) return x, y
```

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+calcArea (x, y: T) return x\*y