Branch: master ▼ ECE252 / ICE03 / RightTriangleTest.cpp

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```
70 lines (58 sloc) 1.45 KB
      #i ncl ude<i ostream>
      #i ncl ude<math.h>
      using namespace std;
      class RightTriangle {
 8
              pri vate:
                       float a;
 9
                       float b;
10
                       float c;
              publ i c:
14
                       Ri ghtTri angl e();
                       RightTriangle(int x, int y, int hypotenuse);
16
          voi d pri ntValues();
          bool isHypotenuseCorrect();
18
          voi d fi xHypotenuse();
19
          voi d setHypotenuse(float x);
20
          float getHypotenuse();
      };
24
25
      int main () {
        RightTriangle* myTriangle = new RightTriangle(5, 12, 13);
26
        myTri angl e->pri ntVal ues();
        cout << "Hypotenuse correct? " << myTri angle->i sHypotenuseCorrect() << endl;</pre>
28
29
        myTri angl e->setHypotenuse(20);
        myTri angl e->pri ntVal ues();
30
        cout << "Hypotenuse correct? " << myTri angle->i sHypotenuseCorrect() << endl;</pre>
        myTri angl e->fi xHypotenuse();
        myTri angl e->pri ntVal ues();
        cout << "Hypotenuse correct? " << myTri angle->i sHypotenuseCorrect() << endl;</pre>
34
        cout << "Hypotenuse: " << myTri angl e-> getHypotenuse() << endl;</pre>
 36
               return 0;
38
      RightTri angle::RightTri angle() {
39
40
41
      RightTriangle::RightTriangle(int x, int y, int hypotenuse) {
42
43
        a = x;
44
        b = y;
45
        c = hypotenuse;
46
47
      bool RightTri angle::isHypotenuseCorrect(){
48
              if (fabs(a*a + b*b - c*c) < 0.0001){
                       //cout << "1"<< endl;
49
                       return true:
              } el se {
                       //cout << "0" << endl;
                       return false;
54
               }
      }
56
```