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// 368 Worksheet: Unique Pointers
#include <iostream>
#include <memory>
using namespace std;
struct Coord{
    float x; float y;
    ~Coord() {cout << "Destroy Coord: " << x << " " << y << "\n";}
};
class Triangle {
    Coord A;
    Coord* B = nullptr;
    unique_ptr<Coord> C = nullptr;
public:
    Triangle(float x1, float y1, float x2, float y2,
             float x3, float y3)
        : A(x1, y1), B(new Coord(x2, y2)), C(new Coord(x3, y3)) {}
    ~Triangle() {

    }
};
int main() {
    auto t1 = Triangle(1,1,2,2,3,4);
    auto t2 = new Triangle(0,0,1,5,2,0);
    auto t3 = make_unique<Triangle>(7,7,8,9,6,6);
}

```

1. Complete the above include so we can use `unique_ptr`
2. Which coordinates will be released (✓) vs. leaked (✗)?
 {1,1} {2,2} {3,4} {0,0} {1,5} {2,0} {7,7} {8,9} {6,6}
3. Add code above so that we release/destroy all nine Coord objects.
4. Cross out lines the compiler won't allow? Consider each individually.

```

Triangle* other = &t1;
Triangle* other = t2;
Triangle* other = t3;
Triangle* other = &t3;
unique_ptr<Triangle> other = t3;
Triangle* other = t3.get();

```

