SelfAssessment12_6

November 15, 2015

1   Exercise 12.6:

What do you think of the example hierarchy above, where the `Polygon` class is the parent of `City`, `Parcel` and `County` classes? Can you suggest another hierarchy that is closer to how we think of cities, counties and land parcels?

Answer appears after one blank page (so you don't peek).

Are you sure you're ready to peek?

2   Possible Solution

We usually think of these land units as having many attributes, and `Polygon` is only of them. Indeed, some land units have multiple polygons. A better hierarchy would be to define a `LandUnit` parent of all three. All of the subclasses (`City`, `Parcel` and `County`) would have *at least* one polygon, and some would have more. The unit's polygons could be stored as a list having at least one member. The `Polygon` object would be defined as before, but each subclass would have unique properties as in the example.