## 22C:16 Quiz 13

Implement a class called shapes. Each instance of the shapes class contains some number of circles, some number of quadrilaterals, and some number of triangles. Here is an example of how I would construct an instance of the shapes class:
$\mathrm{x}=\operatorname{shapes}(4,2,7)$
This assignment creates an instance of the shapes class called $x$ that contains 4 circles, 2 quadrilaterals, and 7 triangles.
The shapes class should provide one method called select that "selects" at random one shape from the shapes instance, deletes it from the shapes instance and returns a string "C", "Q" or "T" indicating the color of the ball selected. Here is an example of how I would call this method:
print x.select()
Given that x has 4 circles, 2 quadrilaterals, and 7 triangles, the call to the above method would return "C" with probability $4 / 13$, "Q" with probability $2 / 13$ and "T" with probability $7 / 13$. You can assume that the shapes instance contains at least one shape before select is called.
Suggestion. My suggestion would be to use three int attributes to keep track of how may circles, quadrilaterals, and triangles the shapes instance contains.
What to write. You have to write down the implementation of the shapes class with one constructor method and one method called select.

