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## Inheritance

Solutions for those exercises.<sup>1</sup>

#### **Questions**

- 1. What is the keyword used to call the constructor from the base class?
- ☐ this.
- $\square$  the name of the base class.
- □ base
- □ over
- □ inherits

### **Problem**

Consider the following diagram:

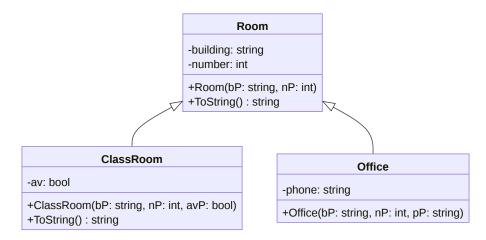


Figure 1: A UML diagram for the Room ClassRoom class (text version<sup>2</sup>)

Suppose you are given an implementation of the Room class, such that

<sup>&</sup>lt;sup>1</sup>https:/princomp.github.io/solutions/oop/inheritance

```
Room test = new Room("UH", 243);
Console.WriteLine(test);
displays
```

# UH 243

- 1. Write an implementation of the ClassRoom class. Your ToString method should display the room's building and number, in addition to whether it has AV set-up.
- 2. Write a SameBuilding static method to be placed inside the Room class such that

```
Office test1 = new Office("UH", 127, "706 737 1566"); ClassRoom test2 = new ClassRoom("UH", 243, true); Office test3 = new Office("AH", 122, "706 729 2416"); Console.WriteLine(Room.SameBuilding(test1, test2)); Console.WriteLine(Room.SameBuilding(test2, test3)); Would display "true" and "false".
```