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Questions

**1)** What does Python print for each of the following:

johns\_bag = Bag()  
johns\_bag.print\_bag()  
# what prints? []  
  
for color in [’blue’, ’red’, ’green’, ’red’]:  
   johns\_bag.add\_skittle(Skittle(color))  
johns\_bag.print\_bag()  
# what prints? [‘blue’, ‘red’, ‘green’, ‘red’]  
  
s = johns\_bag.take\_skittle()  
print(s.color)  
# what prints? blue

print(johns\_bag.number\_sold)  
# what prints? 1  
  
print(Bag.number\_sold)  
# what prints? 1  
  
soumyas\_bag = Bag()  
soumyas\_bag.print\_bag()  
  
print(johns\_bag.print\_bag())  
# what prints? None  
  
print(Bag.number\_sold)  
# what prints? 2  
  
print(soumyas\_bag.number\_sold)  
# what prints? 2

**Answer 1**

# answers above

**2)** Write a new method for the Bag class called take color, which takes a color and removes (and returns) a Skittle of that color from the bag. If there is no Skittle of that color, then it returns None.

**Answer 2**

# def take\_color(self, color):

       if self.color in self.skittles[Skittle(color)]:

               return self.remove.skittles.[Skittle(color)]

       else:

               return None

**3.** Write a new method for the Bag class called take all, which takes all the Skittles in the current bag and prints the color of the each Skittle taken from the bag.

**Answer 3**

# def take\_all(self):

      for i in range(len(self.skittles)):

               print skittles[i].(color)