Practice Final Solution

1. class IceCream: def __init__(self): self.cone = {} def add scoops(self, flavor, num of scoops): if flavor in self.cone.keys(): self.cone[flavor] += num of scoops else: self.cone[flavor] = num of scoops def get flavor(self, flavor): if flavor in self.cone: return self.cone[flavor] else: return 0 def to string(self): scoops = self.cone.values() total = sum(scoops) return str(total) + ' scoops of ice cream with ' + str(self.cone.keys()) 2. 1. new ingredients = {} for i in self.ingredients: new ingredients[i] = self.ingredients[i] * num servings return new ingredients 2. breakfast = Recipe('Cereal') breakfast.add ingredient('milk', 1) breakfast.add ingredient('cereal', 2) breakfast.add next step('Pour the cereal') breakfast.add next step('Pour the milk')

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3.
     def swap casing(phrase):
       result = ""
       for i in range(len(phrase)):
         if i % 2 == 0:
           result += phrase[i].upper()
         else:
           result += phrase[i].lower()
       return result
4.
     def even key(given dict):
           ans list = []
           for cur key in given dict:
                 if(cur key % 2 == 0):
                      ans list.append(given dict[cur key])
                      given dict[cur key] = "even"
           return ans list
```

5. Answer:

- a. Global, do stuff, recommend by influence
- b. recommend by influence
- c. Most likely this is due to a misspelling of the function name referred to as "read_result()" on line 107 of social_network.py. So a good start would be to search to see if there is a similarly named function in the file social_network.py. If that fails, maybe this function is defined in another namespace like we did before with Random or nx, requiring the function name to be prefaced with that module name.

6. sum : 9

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7. '''
    Given a list of numbers, print the number of unique numbers in the list and return a dictionary containing the numbers in the list as keys, and values that are a set containing all of the factors of that number.
    ...
8.

a.
    [sorted(x, reverse=True) for x in lst if len(x) % 2 != 0]
b.
    {sum(x): x for x in lst}
```

9. [Dog(name) for name in dog names if len(name) > 0]