CPSC120
Fundamentals of Computer Science
In-class Activity 21

1. For each of the following snippets of Python code, give what would be printed to the command line if run. If the snippet will not print anything because of an error, just put error.

   (a)
   ```
   spam = [1]
   for i in range(4):
       spam.append(spam[i] + spam[i])
   print(spam)
   ```

   (b)
   ```
   spam = {1: 2, 2: 3}
   print(spam[spam[1]])
   ```

   (c)
   ```
   spam = 1
   eggs = 2
   while spam < 4 and eggs < 10:
       spam += spam
       eggs *= eggs
   print(spam)
   ```

   (d)
   ```
   spam = [[1, 2, 3], [4, 5, 6], [7, 8, 9]]
   eggs = [spam[i][i] for i in range(3)]
   print(eggs)
   ```

   (e)
   ```
   class Spam:
       __init__(self, init_val):
           self.eggs = init_val
       __str__(self):
           return str(self.eggs)
       do_something(self, other_val):
           self.eggs = other_val.eggs
   spam = Spam(1)
   spam.do_something(Spam(-1))
   print(spam)
   ```

2. For each of the following snippets of Python code, give what would be printed to the command line if run. If the snippet will not print anything because of an error, just put error.

(a)
```
def spam(eggs):
    eggs.append(0)
ham = [1, 2, 3]
spam(ham)
print(ham)
```

(b)
```
def spam(eggs):
    eggs = eggs + "a"
ham = "123"
spam(ham)
print(ham)
```

(c)
```
class Classy:
    pass
def spam(eggs):
    eggs.x = 0
ham = Classy()
ham.x = 1
spam(ham)
print(ham.x)
```

3. Write a function that takes a list of numbers and removes all duplicate numbers. The function should not return anything but should modify the input list. The function does not need to prompt for input.