Computer Science — Python — HW #12

Assigned on Wed, 2017-03-15. Complete by Tue, 2017-03-21.

1. Continue reading chapters 15 and 16 of Think Python, 2nd ed. this week.
2. **[Turn in]** Download the file **bank\_account\_map\_filter.py.zip** from the course website, and unzip it to get **bank\_account\_map\_filter.py**. Make the one modification described in the file:
3. Use the **filter** function to get a list of **NamedBankAccount** objects that have at least $400.

Then submit the resulting file as an attachment.

1. **[Turn in]** Download the file **adventure.py.zip** from the course website, and unzip it to get **adventure.py**.
   1. Try running the program. Unfortunately, you'll see that it encounters an error as currently written.
   2. Look over the program (including the class and function names) to see how it works.
   3. Modify the **play** function in class **Player** to get to reach the winning room and win an awesome prize!
      * But do not modify any of the code elsewhere in the script—that's off-limits!
   4. Submit the winning version of the script as an attachment.
2. Download the file **fibonacci\_speed.py.zip**, and unzip it to get **fibonacci\_speed.py**. This script times how long it takes to compute 32 values of the Fibonacci function without using a cache, and 5000 values while using a cache. Run the script to see how the two times compare, and be thankful that many of the websites you visit use caches to make their web page load time bearable.