22C:16 Quiz 9
Date: Apr 10th, 2012

1. [**5 points**] Suppose that D is the dictionary {"what":"doing", "are":"what", "you":"next", "doing":"are", "next":"you", "Saturday?":"Saturday?"}. Write down what the value of D is after each of the following Python statements. Evaluate each statement starting with the same value of the dictionary D, mentioned above.

   (a) `D["what"] = D["are"]`

   (b) `D.update({"Sunday":"Saturday?", "what":"what"})`

   (c) `del D["you"]`

   (d) `D["which"] = D[D["you"]]`

   (e) `D.clear()`

Turn over for Problem 2.

2. [**5 points**] Suppose that `D` is the dictionary of 5-letter words and their "neighbors" constructed in the `playGame` program that we wrote in class last week. For words u, v appearing as keys in `D`, (u, v) is called an **isolated pair** if u has only one neighbor v and v has only one neighbor u. Write a function called `isolatedPairs` that takes this dictionary `D` as a parameter and returns the list of all isolated pairs. Thus the function should return a return a list of elements such that each element is itself a list of size 2. Note that each isolated pair (u, v) will appear in the returned list twice, once as `[u, v]` and once as `[v, u]`.