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. Suppose that we want to write a function called secondNeighbors that takes a word w that appears as a key in D and returns the list of all words that can be obtained by replacing either one or two letters in w. Code for this function is provide below with some parts missing. Your task is to complete this function.