CS:1210 (22C:16) Quiz 9 Version (c)

You have 15 minutes to complete this quiz. Please put away your books, notes, and all electronic devices Each problem is worth 5 points.

1. Suppose that D is the dictionary {"what": "why", "are": "why", "you": "what", "why": "you", "next": "are", "hello": "are"}. Given below are a bunch of expressions. Write down what each expression evaluates to.

    (a) `D.keys()`

    (b) `D[D["next"]]`

    (c) `D.values()`

    (d) `D.items()`

    (e) `D[D[D["you"]]]`

2. Suppose that D is the dictionary {"who": 1001, "which": 120, "what": 107, "when": 76, "why": 365}. Write down the value of D after each of the statements below. Assume that each statement uses the same value of D shown above.

    (a) `del D["which"]`

    (b) `D["what"] = D["when"]`

    (c) `D.update({"why": 400, "whence": 123})`

    (d) `D["will"] = 987`

    (e) `D.clear()`

3. Write a function `weirdMerge` that takes two dictionaries `D1` and `D2` and returns a new dictionary that contains all the keys in `D1` that are not present in `D2`. The associated values of the keys remain unchanged. For example, if `D1 = {"hi": 10, "test":20, "hello":30}` and `D2 = {"message": 14, "test": 120}` then the dictionary returned by `weirdMerge` is `{"hi: 10, "hello": 30}`.