

## 22C:16 (CS:1210) Quiz 8

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You have 20 minutes to complete this quiz.

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

(a) `D.keys()`

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

(c) `D.values()`

(d) `D.items()`

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

2. Suppose that `D` is the dictionary `{"what": "why", "are": "why", "you": "what", "why": "you", "next": "are", "hello": "are"}`. 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) `del D["are"]`

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

(c) `D.update({"you" : "why", "skip": "hello"})`

(d) `D.update({"you" : "you"})`

(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}`.
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