

22C:16 (CS:1210) Quiz 8

You have 20 minutes to complete this quiz.

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 `{"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 `deleteSmallFrequencies` that takes as its single parameter, a dictionary `D`. The keys of this dictionary are strings and each key has an associated nonnegative integer as its value. You may think of the strings as words and the associated values as frequencies. The function `deleteSmallFrequencies` is required to return a new dictionary obtained by deleting from the given dictionary all words that have frequency less than or equal to 10. For example, if `D` were `{"hello":20, "hi":7, "text":3, "earthquake":1000}` then the function call `deleteSmallFrequencies(D)` should return `{"hello":20, "earthquake":1000}`.
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