

CS:1210 Quiz 10 Version (a)

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 the dictionary `D` equals `{1:7, 2:6, 3:1, 4:5, 5:2, 6:4, 7:3}`. Evaluate the following expressions.

(a) `list(D.values())`

(b) `D[D[D[1]]]`

(c) `list(D.keys())`

(d) `list(D.items())`

(e) `D[D[5]]`

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. What is the output of the following code fragment?

```
D = {"who": 4, "which": 2, "what": 1, "when": 6, "why": 5, "whence":7}
newD = {}

sumVal = 0
while D != {}:
    item = D.popitem()
    print(item)
    sumVal = sumVal + item[1]
    item = D.popitem()
    print(item)
    newD[sumVal] = item[0]
    print(D, newD)
```