Submission from 1/20/2016 5:55 PM

CSE 160 16wi - Fri 01/22 - RQ-08

<table>
<thead>
<tr>
<th>Total points: 9/9</th>
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<tbody>
<tr>
<td>1/1 True/False: A Python dictionary can contain two keys that are equal, that map to different values.</td>
</tr>
<tr>
<td>○ True</td>
</tr>
<tr>
<td>☑ False</td>
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</tbody>
</table>

Correct
Answer: False

| 1/1 True/False: A Python dictionary can contain two different keys that map to the same value. |
| ○ True |
| ○ False |

Correct
Answer: True

| 1/1 Indicate which of the following Python data structures are immutable: |
| ☐ Dictionary |
| ☒ Tuple |
| ☐ List |
| ☐ String |

Correct
Answer:
Suppose the dictionary `nums` contains the following key-value pairs:

(1, "one")
(2, "two")
(3, "three")
(4, "four")

If the keys in `nums` are iterated over using a `for` loop (see below), in what order will they be iterated?

```python
for key in nums:
    # Do something
```

- Ascending order (1, 2, 3, 4)
- Descending order (4, 3, 2, 1)
- Dictionary ordering is not defined, thus we cannot assume a particular ordering of keys.

**Correct Answer:**

**Answer:**
Dictionary ordering is not defined, thus we cannot assume a particular ordering of keys.

What are the valid keys of `dict`?

- 'WA', 'CA', 'AZ', 'Dem', 'Rep'
- 'WA', 'CA', 'AZ'
- 'WADem', 'CADem', 'AZDem', 'WARep', 'CARep', 'AZRep'

**Correct Answer:**

**Answer:**
'WA', 'CA', 'AZ'

What are the values (as in, the value in a key-value pair) in `dict`? (Check all that apply.)

- { 'Dem': 47, 'Rep': 52 }
- { 'Dem': 76, 'Rep': 14 }
- { 'Dem': 88, 'Rep': 11 }
- 'WA', 'CA', and 'AZ'
- 47, 52, 76, 14, 88, and 11
1/1

What is the result of evaluating \texttt{dict['WA']}? 

- Evaluates to a number
- Error because 'WA' is not a valid key of dict
- Evaluates to a dictionary
- Evaluates to a string

Correct
Answer:
Evaluates to a dictionary

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What is the result of evaluating \texttt{dict['WA']['Dem']}? Explain why this happened.

It evaluates to 47. First you evaluate \texttt{dict['WA']}, which evaluates to the dictionary \{ 'Dem': 47, 'Rep': 52 \} (in dict, the key 'WA' maps to that value). Then, on that dictionary, you access the key 'Dem', which evaluates to 47.

Correct
Answer:

Feedback:
It evaluates to 47. First you evaluate \texttt{dict['WA']}, which evaluates to the dictionary \{ 'Dem': 47, 'Rep': 52 \} (in dict, the key 'WA' maps to that value). Then, on that dictionary, you access the key 'Dem', which evaluates to 47.

Total points: 9/9

Questions or Comments?
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