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You submitted this quiz on **Mon 8 Dec 2014 2:24 AM PST**. You got a score of **10.00** out of **10.00**.

Top of Form

**Question 1**

What is the difference between a Python tuple and Python list?

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| --- | --- | --- | --- |
| **Your Answer** |  | **Score** | **Explanation** |
| Lists are indexed by integers and tuples are indexed by strings |  |  |  |
| Lists are mutable and tuples are not mutable | Correct | 1.00 |  |
| Tuples can be expanded after they are created and lists cannot |  |  |  |
| Lists maintain the order of the items and tuples do not maintain order |  |  |  |
| Total |  | 1.00 / 1.00 |  |

**Question 2**

Which of the following methods work both in Python lists and Python tuples?

|  |  |  |  |
| --- | --- | --- | --- |
| **Your Answer** |  | **Score** | **Explanation** |
| sort() |  |  |  |
| append() |  |  |  |
| pop() |  |  |  |
| reverse() |  |  |  |
| index() | Correct | 1.00 |  |
| Total |  | 1.00 / 1.00 |  |

**Question 3**

What will end up in the variable **y** after this code is executed?

x , y = 3, 4

|  |  |  |  |
| --- | --- | --- | --- |
| **Your Answer** |  | **Score** | **Explanation** |
| 3 |  |  |  |
| A two item list |  |  |  |
| 4 | Correct | 1.00 |  |
| A two item tuple |  |  |  |
| A dictionary with the key 3 mapped to the value 4 |  |  |  |
| Total |  | 1.00 / 1.00 |  |

**Question 4**

In the following Python code, what will end up in the variable **y**?

x = { 'chuck' : 1 , 'fred' : 42, 'jan': 100}

y = x.items()

|  |  |  |  |
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| **Your Answer** |  | **Score** | **Explanation** |
| A list of strings |  |  |  |
| A list of integers |  |  |  |
| A tuple with three integers |  |  |  |
| A list of tuples | Correct | 1.00 |  |
| Total |  | 1.00 / 1.00 |  |

**Question 5**

Which of the following tuples is greater than **x** in the following Python sequence?

x = (5, 1, 3)

if ??? > x :

...

|  |  |  |  |
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| **Your Answer** |  | **Score** | **Explanation** |
| (0, 1000, 2000) |  |  |  |
| (4, 100, 200) |  |  |  |
| (6, 0, 0) | Correct | 1.00 |  |
| (5, 0, 300) |  |  |  |
| Total |  | 1.00 / 1.00 |  |

**Question 6**

What does the following Python code accomplish, assuming the **c** is a non-empty dictionary?

tmp = list()

for k, v in c.items() :

tmp.append( (v, k) )

|  |  |  |  |
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| **Your Answer** |  | **Score** | **Explanation** |
| It computes the average of all of the values in the dictionary |  |  |  |
| It creates a list of tuples where each tuple is a value, key pair | Correct | 1.00 |  |
| It computes the largest of all of the values in the dictionary |  |  |  |
| It sorts the dictionary based on its key values |  |  |  |
| Total |  | 1.00 / 1.00 |  |

**Question 7**

If the variable **data** is a Python list, how do we sort it in reverse order?

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| **Your Answer** |  | **Score** | **Explanation** |
| data.reverse() |  |  |  |
| data = sortrev(data) |  |  |  |
| data = data.sort(-1) |  |  |  |
| data.sort(reverse=True) | Correct | 1.00 |  |
| Total |  | 1.00 / 1.00 |  |

**Question 8**

Using the following tuple, how would you print 'Wed'?

days = ('Mon', 'Tue', 'Wed', 'Thu', 'Fri', 'Sat', 'Sun')

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| --- | --- | --- | --- |
| **Your Answer** |  | **Score** | **Explanation** |
| print days.get(1,-1) |  |  |  |
| print days{2} |  |  |  |
| print days[1] |  |  |  |
| print days[2] | Correct | 1.00 |  |
| print days(2) |  |  |  |
| Total |  | 1.00 / 1.00 |  |

**Question 9**

In the following Python loop, why are there two iteration variables (k and v)?

c = {'a':10, 'b':1, 'c':22}

for k, v in c.items() :

...

|  |  |  |  |
| --- | --- | --- | --- |
| **Your Answer** |  | **Score** | **Explanation** |
| Because the items() method in dictionaries returns a list of tuples | Correct | 1.00 |  |
| Because there are two items in the dictionary |  |  |  |
| Because for each item we want the previous and current key |  |  |  |
| Because the keys for the dictionary are strings |  |  |  |
| Total |  | 1.00 / 1.00 |  |

**Question 10**

Given that Python lists and Python tuples are quite similar - when might you prefer to use a tuple over a list?

|  |  |  |  |
| --- | --- | --- | --- |
| **Your Answer** |  | **Score** | **Explanation** |
| For a temporary variable that you will use and discard without modifying | Correct | 1.00 |  |
| For a list of items that want to use strings as key values instead of integers |  |  |  |
| For a list of items that will be extended as new items are found |  |  |  |
| For a list of items you intend to sort in place |  |  |  |
| Total |  | 1.00 / 1.00 |  |

Bottom of Form