## Powerful Data Structures and Python Extension Libraries quiz

**TOTAL POINTS 14** 

1.	Each key in the dictionary of Python is unique, but the value mapped by each key is not unique, subject to repetition.	1 point
	Т	
	○ F	
2.	Which of the following can NOT be a key in a dictionary?	1 point
	o 'name'	
	1001	
	tupleA = (123)	
	istA = ['className']	
3.	Please decide whether the following statements are true or false.	1 point
	The "set" in Python corresponds to the mathematical set of unordered and non-repetitive elements.	
	● T	
	○ F	
4.	Please output the operational result of the following command: sorted (set('You need Python.'))[2]. (Directly write down the corresponding characters, without any symbol of mark like single quotes or double quotes)	1 point
	p	

color['color']['cold']

color['color']['cold'][1]

8.	Which of the following operational results of sets is NOT correct?	1 point	
	a = {1, 2, 3, 4}		
	b = {2, 3, 5, 6}		
	>>> a.difference(b) == a - b		
	True		
	>>> a.union(b) == a   b		
	True		
	>>> a.issubset(b)		
	True		
	>>> a.intersection(b) == a & b		
	True		
9.	Which of the following descriptions about the common extension libraries of Python is NOT correct?		
	"dtype" is a special object, which contains the information to interpret "ndarrabe a specific data type. "int64" represents a 64-digit integer with sign.	ıy" to	
	"Series" of "pandas" can be regarded as a fixed-length orderly dictionary.		
	<ul> <li>"ndarray" in NumPy is an object of multidimensional array, which may be ger through sequence objects.</li> </ul>	nerated	
	"DataFrame" in "pandas" is a table data structure, containing an unordered sequence group. Each sequence can be of a different value type (numeric, s Boolean value etc).	string,	
10.	Please fill in the results of the following program.	1 point	
	<pre>1  &gt;&gt;&gt; import numpy as np 2  &gt;&gt;&gt; a = np.array([(1, 2, 3), (4, 5, 6), (7, 8, 9)]) 3  &gt;&gt;&gt; a[[2]].sum()</pre>		

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 Please fill in the following blanks with the correct answers (please seperate the results with spaces).

1 point

Enter answer here

12. Please fill in the first blank with the answer.

1 point

Enter answer here

13. Please fill in the second blank in the previous question with the answer.

1 point

Enter answer here

1 point

14. There are 5 big names of a certain field: Tom, Jerry, Snoopy, Pooh and Luffy, whose ID are 88888, 5555555, 11111, 12341234 and 1212121, respectively. Please organize those data in dictionary. Program to achieve the following function:

After a user inputs the name of a big name, it outputs his/her ID.

Separate the results for two blanks with a semicolon.

```
1 = def find_person(dict_users, strU):
2 =
          if dict_users.____(strU):
             return dict_users[strU]
3
4 =
          else:
5
              return 'Not Found'
6
7 • if __name__ == "__main__":
8 dict_users = {'Tom':88888,'Jerry':5555555,'Snoopy':11111,'Pooh':1234
          ,'Luffy':1212121}
         strU = input('Please input the name: ')
9
10
         print(find_person(dict_users, _____))
```

## Input/Output:

```
1 >>>
2 Please input the name: Jerry
3 5555555
4 >>>
```

Enter answer here



I, **Soujatya Bhattacharya**, understand that submitting work that isn't my own may result in permanent failure of this course or deactivation of my Coursera account.

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