Python Data Structures Test

1. Look at the following code:

data = [10, 20, 30, 40, 50]

Which of the following statements is true?

1. The code creates a tuple containing the numbers 10,20,30,40,50.
2. The code creates a set containing the numbers 10,20,30,40,50.
3. The code creates a list containing the numbers 10,20,30,40,50.
4. The code creates a map containing the numbers 10,20,30,40,50.
5. Which of the following correctly creates a **list** that contains the values "red", "white" and "blue"?  
   1. myList = ("red", "white", "blue")
   2. myList = ["red", "white", "blue"]
   3. myList = list(("red", "white", "blue"))
   4. More than one of these is correct.
6. What is wrong with the following code?

data = (3, 2, 2, 4, 7)  
data.append(9)  
print(data[0])

1. Tuples cannot have duplicate values.
2. You cannot append data to the end of a tuple.
3. Tuples do not have indices.
4. Nothing is wrong with the code.
5. Which of the following correctly creates a **tuple** containing 1 value?
6. myTuple = ("horse")
7. myTuple = ("horse",)
8. myTuple = new tuple("horse")
9. myTuple = ["horse"]

1. What is the output for the following code:

my\_set = {5, 10, 15, 20}  
my\_set.add(25)  
my\_set.remove(15)  
my\_set.add(5)  
my\_set.remove(5)

What values are contained in the my\_set after code has been executed?

* 1. 5, 10, 20, 25
  2. 5, 5, 10, 20, 25
  3. 10, 20, 25
  4. There is an error in the code.

1. Look at the following code.

dog = {

"name": "Maddie",

"breed": "Lab Mix",

"age": 15

}

<code>

Which of the following can replace <code> so that the string "Maddie" is displayed?

1. print(dog.get("name"))
2. print(dog["name"])
3. print(dog.name)
4. More than one

1. Look at the following code.

address = {  
 "street" : "101 Main Street",  
 "state" : "Tx",  
 "zip" : "76201"

}

student = {  
 "name": "John Doe",  
 "id": "12345",  
 "address": address

}

print(student.get("address").get("state"))

What is displayed when this code is executed?

1. Tx
2. address : state : Tx
3. address , state, Tx
4. Nothing is printed due to an error.
5. Which of the following is not a built in Python data structure?
6. array
7. set
8. map
9. list