Quiz 3

Data Structures, Sets, and Maps

Name/Surname: Yohya Ele KURUGAY

Student Number: 20120808005

We created two data structures to store information about dates (month and days). One of these was a Map and one was a Set. We then used these to pass to methods to add the date information to the data structure and return information about the data. These are described as follows:

- 1. isDuplicate returns true if the date has already been added. If the date is not found in the data already, adds it and returns false
- 2. countMostSoFar adds the date to the data structure. Returns the number of times the date this date has been added so far

A main method and output using these data structures and methods is shown below.

```
public static void main(String[] args) {
  String[] myMonths = {"May", "June", "May", "July",
                                       20,
                      {20,
                               20,
  int[] myDays =
  for(int i = 0; i < myMonths.length; i++) {
     System.out.println("Adding " + myMonths[i] + "-" + myDays[i]);
     System.out.println(isDuplicate(myThing1, myMonths[i], myDays[i]));
     System.out.println(countSoFar(myThing2, myMonths[i], myDays[i]));
  }
}
```

Adding May-20 false Adding June-20 false Adding May-20 true Adding July-20 false Adding May-19 false Adding May-19 true Adding May-19 true 3

(10 points) Determine which thing is a Map and which is a Set (circle one) myThing1 Map

myThing2

Set

Set

(20 points) Write an implementation for the isDuplicate() method									
public	static	boolean	_isDuplicate(thing,	String C] month,	in+10 day) {			
if (ζ								
(20	into White	an implementation	for the countMostS	nEar() meth	od	7			

_	(20 points) Write an implementation for the Court Most Sofial () method										
	public	static	int		countMostSoFar((thing, Str	ing Camonth,	, int C	day)	٤
	3										\rfloor