AED_FALL_18_Quiz-8_1 30 minutes

Question - 1 Find Duplicate elements from among 2 arrays

SCORE: 40 points

#Duplicate

Given 2 Lists of integer as input to the function, return a **Sorted List (Descending)** containing integers common to both input Lists.

```
Eg:
input 1 [2, 3, 5, 7, 27, 1, 6]
input 2 [8, 55, 77, 5, 9, 6, 1]
answer [6, 5, 1]
```

Explanation:

- the elements -1, -6 and 5 are present in both the input lists
- the returned values need to be in descending order thus, 5 (highest) to
- -1 (lowest).

Assumptions:

no element in input arrays would be repeated.

Question - 2 Inheritance

SCORE: 10 points

- Sum = 10
- Sum = 7
- Sum = 12
- Product = 10



Question - 3 SCORE: 10 points

Application Development Java

Which of the following statement is true about the code below?

```
class A {
   int a;
   public A(int x) {a = x;}
};

class B{
   int b;
   public B(int x):b(x){}
};
```

Class A and Class B constructors represent two ways of initializing the member variables.

- Class B object would initialize faster.
- Class B object initialization is invalid Java syntax.
- Depends on the compiler

Question - 4 String Matching

SCORE: 10 points

```
String s = "superman";
String s1 = "superman";

if (s == b){
    System.out.println("Bruce is Superman");
} else if(s == s1){
    System.out.println("Clark is Superman !!!");
} else if(s1 == s){
    System.out.println("is Clark Superman ???");
}

System.out.println("we love RDJ");

Clark is Superman !!! we love RDJ

Clark is Superman !!! is Clark Superman ??? we love RDJ

Bruce is Superman

we love RDJ
```

Question - 5 SCORE: 10 points

```
What's the output when printAnswer() is invoked?
private void printAnswer() {
 //.getName() method returns value set using .setName()
  Person p1 = new Person();
  p1.setName("name-1");
  Person p2 = p1;
  p2.setName("name-2");
  System.out.println(p1.getName());
  System.out.println(p2.getName());
}
          name1 name2
          name-1 name-2
          name1 name-2
          name-2 name-2
Question - 6
                                                                       SCORE: 10 points
Storage
Which interface provides the capability to store objects using a key-
value pair?
          Java.util.Map
          Java.util.Set
          Java.util. List
          Java.util.Collection
Question - 7
                                                                       SCORE: 10 points
Increment Decrement Operators
class Solution{
  public static void main(String[] args){
     int a = 10;
    System.out.println("ABC " + (--a) + (a--));
     System.out.println("ABC " + (b--) + (--b));
  }
}
```

Program would run. Output : ABC 98 ABC 76

Program would run. Output : ABC 99 ABC 66

Program would run. Output : ABC 99 ABC 86

Compilation Error. Post-Increment and Pre-increment operators used in a $\,$