



Question - 1

Non Duplicates

SCORE: 40 points

Given a list of bits(1's and 0's) as input to the function, return the **Sorted list (Ascending)** with count of maximum consecutive 1's, number of 0's, number of 1's.

Eg:

input 1 [1,1,0,0,1,1,1,1]

answer [2, 4, 6]

Explanation:

- the output list contains [no. of consecutive 1's, total no. of 1's, total no. of 0's]
- highest no. of consecutive 1's in above array is 4 as shown
: [1,1,0,0,1,1,1,1]
- the total no. of 1's is 6
- the total no. of 0's is 2
- the final sorted output is [2,4,6]

Question - 2

Question X

SCORE: 10 points

```
private void printAnswer() {  
    //getName() method returns value set using setName()
```

```
    Person p1 = new Person();  
    p1.setName("name-2");
```

```
    Person p2 = p1;  
    p2.setName("name-1");
```

```
    System.out.println(p1.getName());  
    System.out.println(p2.getName());
```

```
}
```

- ☐ name2 name1
- ☒ name-1 name-1
- ☐ name1 name2
- ☐ name-2 name-1

Question - 3

Increment Decrement Operators

SCORE: 10 points

```

class Solution{
    public static void main(String[] args){
        int a = 10;
        System.out.println("ABC " + (++a) + (a++));
        int b = a++;
        System.out.println("ABC " + (b--) + (a));
    }
}

```

☐

Compilation Error. Post-Increment and Pre-increment operators used in a wrong way

☐

Program would run. Output : ABC 1111 ABC 1313

☒

Program would run. Output : ABC 1111 ABC 1213

☐

Program would run. Output : ABC 1112 ABC 1113

Question - 4 String Matching

SCORE: 10 points

```

String s = "superman";
String b = "batman";
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

☒

we love RDJ

☐

Bruce is Superman

☐

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

Question - 5 Strings

SCORE: 10 points

Which of the following Java declaration of the String array is correct?

☐

String temp [] = new String {"j" "a" "z"};

☐

String temp = {"a", "b", "c"};

☒

String temp [] = {"a", "b", "c"};

☐ String temp [] = { "j" " " b" "c"};

Question - 6

Storage

SCORE: 10 points

Which structure allows users to store duplicate values?

- ☐ Map
- ☐ ArrayList
- ☐ array
- ☒ All of the Above

Question - 7

Inheritance

SCORE: 10 points

```
class A {  
    public static int eval(int a, int b){  
        return a * b;  
    }  
}  
class B extends A{  
    public static int eval(int a, int b){  
        return a + b;  
    }  
}  
class C extends A {  
    public static void main(String  
args[]) {  
        System.out.println("Sum =  
" + eval(2,3));  
    }  
}
```

- ☐ Sum = 5
- ☒ Sum = 6
- ☐ Sum=6
- ☐ B and C