Pdf Question no 1 Solution in Java By Intellective Tech

```
import java.io.BufferedReader;
import java.io.InputStreamReader;
//I have written this code in simple way so that every body can understand this.
//You can use your own logic for solving this problem.
public class Question1 {
   public static void main(String[] args)throws Exception {
      BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
      String str[]=br.readLine().split(",");
      int num1=0;
      String num2="";
      int n=str.length;
      int arr[]=new int[n];
      int fiveIndex=-1;
      int eightIndex=-1;
      for(int i=0;i<n;i++)//converting string array into Integer array.
      {
         arr[i]=Integer.parseInt(str[i]);
         if(arr[i]==5)// finding index of 5 in array
            fiveIndex=i;
         else if(arr[i]==8)
            eightIndex=i; // findinf index of 8 in array

      }
      for(int i=fiveIndex;i<=eightIndex;i++)
      {
```

```
            num2+=str[i]; //concatenating all values between 5 and 8 in the array.
            arr[i]=0;//aftter concatenation we are assigning zero at that index because
                  //we dont need that value any more.
        }
        for(int num:arr)
        {
            num1+=num; //here we are adding all values. we have assigned zero in above loop between
            //fiveIndex and eightIndex in the arr.so it will add remaining outer values.
        }
System.out.println(num1+(Integer.parseInt(num2))); //print the sum!
    }
}
```

Pdf Question no 2 Solution in Java By Intellective Tech

```
import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.util.ArrayList;
import java.util.Collections;
import java.util.HashSet;

//I have written this code in simple way so that every body can understand this.
//You can use your own logic for solving this problem.
public class Question2 {
    public static void main(String[] args)throws Exception {
        BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
        String str=br.readLine();
```

```
String digitArr[]=str.split("[a-zA-Z]");
HashSet<Integer> hs=new HashSet<>();//HashSet does not allow duplicates .
String totalDigits="";
for(String s:digitArr)
   totalDigits+=s;
int len=totalDigits.length();
for(int i=0;i<len;i++)
   hs.add(Integer.parseInt(String.valueOf(totalDigits.charAt(i))));
ArrayList<Integer> listDigits=new ArrayList<>(hs);//copied all element from HashSet into ArrayList.
Collections.sort(listDigits,Collections.reverseOrder());//sorting listDigits in decending order.
int size=listDigits.size();
int notation=-1;
for(int i=size-1;i>=0;i--){
   if(listDigits.get(i)%2==0)
   {
      listDigits.add(listDigits.get(i));
      listDigits.remove(i);
      notation=0;
      break;
   }
}
if(notation==-1)
{
   System.out.println(notation);//means there is no any even digit so it is not possible to produce even number.
}
else
```

```
    {
        for(int ele:listDigits)
            System.out.print(ele);//print all digits without space
    }

  }
}
```

Pdf Question no 3 Solution in Java By Intellective Tech

```
import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.util.ArrayList;
import java.util.Collections;
//I have written this code in simple way so that every body can understand this.
//You can use your own logic for solving this problem.
public class Question3 {
   public static void main(String[] args)throws Exception {
      BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
      String str[]=br.readLine().split(" ");//first line will row and column value separated with space
      int row=Integer.parseInt(str[0]);
      int column=Integer.parseInt(str[1]);
      int matrix[][]=new int[row][column];
      for(int i=0;i<row;i++)//every iteration we will take a row as an input.
      {
         String rowData[]=br.readLine().split(" ");
```

```
        for(int j=0;j<column;j++)
        {
           matrix[i][j]=Integer.parseInt(rowData[j]);
        }
      }

      ArrayList<Integer>list=new ArrayList<>();
      for (int r=0;r<row;r++)
        {
         for(int c=0;c<column;c++){
            if(c < column-3) //condition for cosecutive numbers in all rows in matrix
              {
                 if(matrix[r][c]==matrix[r][c+1] && matrix[r][c+2]==matrix[r][c+3] && matrix[r]
[c+1]==matrix[r][c+2])
                    list.add(matrix[r][c]);
                 }
            if(r < row-3) //   #condition for cosecutive numbers in all columns in matrix
              {
                 if(matrix[r][c]==matrix[r+1][c] && matrix[r+2][c]==matrix[r+3][c] && matrix[r+1]
[c]==matrix[r+2][c])
                    list.add(matrix[r][c]);
               }
            if(c < column-3 && r >= 3) //#cosecutive numbers in all left to right diagonals in matrix
              {
                 if(matrix[r][c]==matrix[r-1][c+1] && matrix[r-2][c+2]==matrix[r-3][c+3] && matrix[r-1]
[c+1]==matrix[r-2][c+2])
                    list.add(matrix[r][c]);
               }
```

```
            if(c >= 3 && r >= 3)  // #cosecutive numbers in all left to right diagonals in matrix
              {
                 if(matrix[r][c]==matrix[r-1][c-1] && matrix[r-2][c-2]==matrix[r-3][c-3] && matrix[r-1][c-1]==matrix[r-2][c-2])
                    list.add(matrix[r][c]);
               }
        }
      }
      if(list.size()==0)
         System.out.println("-1");
      else
         System.out.println(Collections.min(list));
}
}
```

Pdf Question no 5 Solution in Java By Intellective Tech

```
import java.io.BufferedReader;
import java.io.InputStreamReader;
//I have written this code in simple way so that every body can understand this.
//You can use your own logic for solving this problem.
public class Question5 {
   public static void main(String[] args)throws Exception {
      BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
      String str[]=br.readLine().split(",");
      for(String obj:str)
      {
         String ar[]=obj.split(":");
```

```
        String s=ar[0];
        int number=Integer.parseInt(ar[1]);
        int digSqSum=0;
        while(number!=0)//summing every sq of digits
        {
           int digit=number%10;
           digSqSum+=(digit*digit);
           number/=10;
        }
        int lenOfString=s.length();
        if(digSqSum%2==0)
           System.out.print(s.charAt(lenOfString-1)+s.substring(0,lenOfString-1)+" ");
           //first printing last char and then concatenating all char except last
        else
           System.out.println(s.substring(2,lenOfString)+s.substring(0,2)+" ");
        //first printing substring from 3rd position and concatenatiin first two char in it.
     }
  }
}
```

Pdf Question no 7 Solution in Java By Intellective Tech

```
import java.io.BufferedReader;
import java.io.InputStreamReader;
//I have written this code in simple way so that every body can understand this.
//You can use your own logic for solving this problem.
public class Question7 {
   public static void main(String[] args)throws Exception {
      BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
```

```
        String str[]=br.readLine().split(",");
        String password="";
        for(String obj:str)
        {
           String ar[]=obj.split(":");
           String empName=ar[0];
           String empNumber=ar[1];
           int nameLen=empName.length();
           int numberLen=empNumber.length();
           int num=-1;
           for(int i=0;i<numberLen;i++)
           {
      int digit=Integer.parseInt(String.valueOf(empNumber.charAt(i)));
              if(digit<=nameLen && digit > num)
                 num=digit;
           }
           if(num==-1)
              password+="X";
           else
              password+=String.valueOf(empName.charAt(num-1));
        }
        System.out.println(password);
     }
}
```

Pdf Question no 9 Solution in Java By Intellective Tech

```
import java.io.BufferedReader;
import java.io.InputStreamReader;
```

```
//I have written this code in simple way so that every body can understand this.
//You can use your own logic for solving this problem.
public class Question9 {
   public static void main(String[] args)throws Exception {
      BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
      String str=br.readLine();
      int length=str.length();
      int half=length/2;

      for(int i=half ; i>=0 ; i--)
      {
         String prefix=str.substring(0,i);
         String suffix=str.substring(length-i,length);
         if(prefix.equals("")||suffix.equals(""))
         {
            System.out.println("-1");
            break;
         }
         if(prefix.equals(suffix))
         {
            System.out.println(prefix);
            break;
         }
      }
   }
}
```

Pdf Question no 10 Solution in Java By Intellective Tech

```
import java.io.BufferedReader;
import java.io.InputStreamReader;
//I have written this code in simple way so that every body can understand this.
//You can use your own logic for solving this problem.
public class Question10 {
   public static void main(String[] args)throws Exception {
      BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
      int testcase=Integer.parseInt(br.readLine());
      while(testcase--!=0)
      {
      int n=Integer.parseInt(br.readLine());
      String str[]=br.readLine().split(" ");
      int arr[]=new int[n];
      for(int i=0;i<n;i++)
         arr[i]=Integer.parseInt(str[i]);
      int oddSubCount=0;
      for(int i=0;i<n;i+=2)
      {
         int sum=arr[i];
         if(sum%2!=0)
            oddSubCount++;
         for(int j=i+1;j<n;j++)
         {
            sum+=arr[j];
```

```
            if(sum%2!=0)
               oddSubCount++;
            if((sum-arr[i]) % 2!=0)
                oddSubCount++;
         }
      }
         System.out.println(oddSubCount);
      }
   }
}
```

Another Solution Question no 10 in Java By Intellective Tech

```
import java.io.BufferedReader;
import java.io.InputStreamReader;
//I have written this code in simple way so that every body can understand this.
//You can use your own logic for solving this problem.
public class Question10 {
   public static void main(String[] args)throws Exception {
      BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
      int testcase=Integer.parseInt(br.readLine());
      while(testcase--!=0)
      {
      int n=Integer.parseInt(br.readLine());
      String str[]=br.readLine().split(" ");
      int arr[]=new int[n];
      for(int i=0;i<n;i++)
         arr[i]=Integer.parseInt(str[i]);
      int oddSubCount=0;
```

```
        for(int i=0;i<n;i++)
        {
            int sum=arr[i];
            if(sum%2!=0)
                oddSubCount++;
            for(int j=i+1;j<n;j++)
            {
                sum+=arr[j];
                if(sum%2!=0)
                    oddSubCount++;


            }
        }
            System.out.println("odd count is:"+oddSubCount);
        }
    }
}
```

Pdf Question no 11 Solution in Java By Intellective Tech

```
import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.util.ArrayList;


/**
 *
 * @author deepukumar
 */
public class Question11 {
```

```
static int Sum(int num)
{
   int temp=num;
   int digSum=0;
   while(temp!=0)
   {
      digSum+=temp%10;
      temp/=10;
   }
   if(num%digSum==0)
      return 0;
   else
      return 1;
}
public static void main(String[] args)throws Exception {
 BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
 String str[]=br.readLine().split(" ");//first line will row and column value separated with space
 int row=Integer.parseInt(str[0]);
 int column=Integer.parseInt(str[1]);
 int matrix[][]=new int[row][column];
 for(int i=0;i<row;i++)//every iteration we will take a row as an input.
 {
    String rowData[]=br.readLine().split(" ");
    for(int j=0;j<column;j++)
    {
       matrix[i][j]=Integer.parseInt(rowData[j]);
    }
```

```
    }
      System.out.println("");

    for (int r=0;r<row-1;r++)
      {
       for(int c=0;c<column-1;c++){
         int num1=Sum(matrix[r][c]);
         int num2=Sum(matrix[r][c+1]);
         int num3=Sum(matrix[r+1][c]);
         int num4=Sum(matrix[r+1][c+1]);
         if(num1==num2 && num2==num3 && num3==num4 ){
            System.out.println(matrix[r][c]+" "+matrix[r][c+1]);
            System.out.println(matrix[r+1][c]+" "+matrix[r+1][c+1]);
         }
       }

  }
}
}
```

Pdf Question no 12 Solution in Java By Intellective Tech

```
import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.util.ArrayList;
import java.util.Collections;
//I have written this code in simple way so that every body can understand this.
//You can use your own logic for solving this problem.
public class Question12 {
```

```
public static void main(String[] args)throws Exception {
    BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
    String strArr[]=br.readLine().split(",");
    ArrayList<Integer> list=new ArrayList<>();
    for(String s:strArr)
      list.add(Integer.parseInt(s));
    ArrayList<Integer> longestSeries=new ArrayList<>();
    int n=list.size();
    for(int i=0;i<n-1;i++)
    {
      int first=list.get(i);
      int second=list.get(i+1);
      ArrayList<Integer> fabList=new ArrayList<>();
      fabList.add(first);
      fabList.add(second);
      for (int j=i+2;j<n;j++){
      int ele=list.get(j);
      if(first+second==ele){
        fabList.add(ele);
        first=second;
        second=ele;
      }
      }
     if(longestSeries.size()<fabList.size())
        longestSeries=fabList;
    }
if(longestSeries.size()>2)
```

```
{
   for(int ele:longestSeries)
      System.out.print(ele+" ");
}
else
    System.out.println("-1");
   }
}
```

Pdf Question no 16 Solution in Java By Intellective Tech

```
import java.util.Scanner;
public class Question16{
   public static void main(String[] args) {
      Scanner kb=new Scanner(System.in);
      String input=kb.next();
      StringBuilder sb=new StringBuilder();
      int sq=0;
      for(int i=0;i<input.length();i++){
        char ch=input.charAt(i);
        int no=Integer.parseInt(String.valueOf(ch));

        if( no % 2!=0){
           sq=no*no;
         sb.append(String.valueOf(sq));
        }
      }
      String str=sb.toString();
```

```
    if(str.length()<4){
       System.out.println("-1");
    }
    else{
    String output=str.substring(0,4);
    System.out.println(output);
    }
  }
}
```