Name-somya Gupta   university roll no.-2215001757
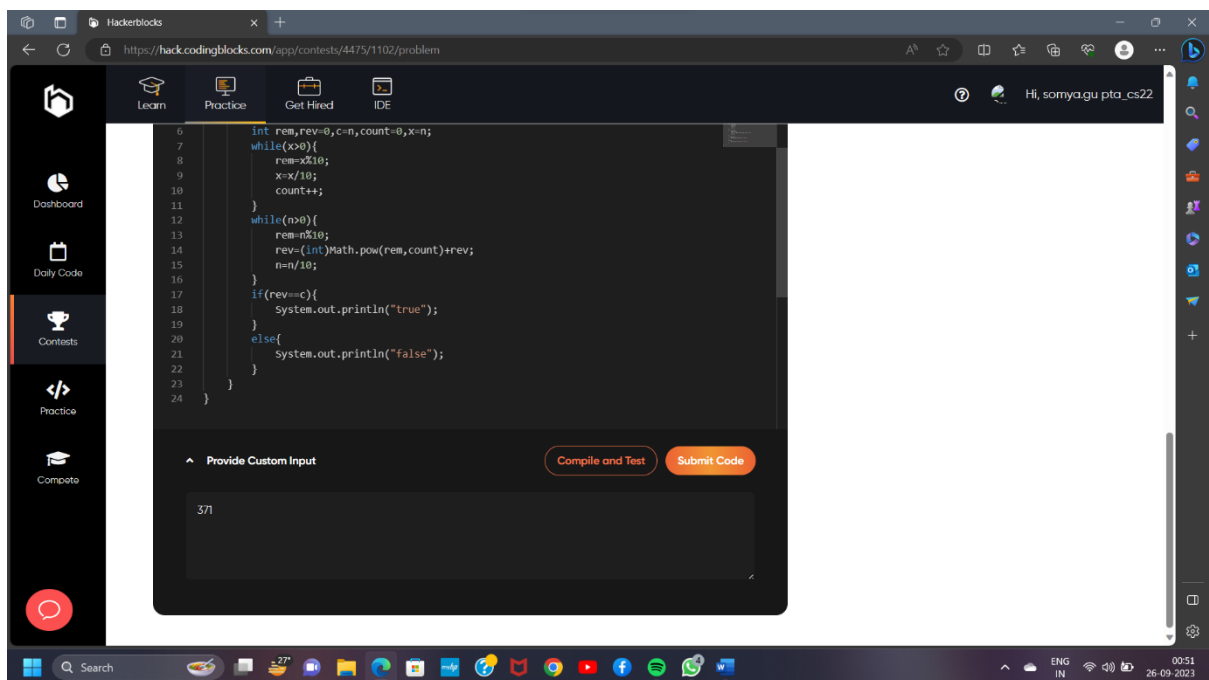
Course-btech(c.s.)   subject-OOPS assignment-1

Class roll no.=60

Q11-Q19

Screenshot 1 — code:

```java
14              sum=sum+rem;
15          }
16          else{
17              sum2=sum2+rem;
18          }
19          car1=car1/10;
20      }
21      if (sum2%4==0||sum%3==0){
22          System.out.println("Yes");
23      }
24      else{
25
26          System.out.println("No");
27      }
28      i++;
29      }
30  }
31  }
32
```

Provide Custom Input

Compile and Test   Submit Code

```
2
12345
12134
```

Screenshot 2 — code:

```java
1  import java.util.*;
2  public class Main {
3      public static void main(String args[]) {
4          Scanner input=new Scanner (System.in);
5          int n=input.nextInt();
6          int rem,rev=0,c=n,count=0,x=n;
7          while(x>0){
8              rem=x%10;
9              x=x/10;
10             count++;
11         }
12         while(n>0){
13             rem=n%10;
14             rev=(int)Math.pow(rem,count)+rev;
15             n=n/10;
16         }
17         if(rev==c){
18             System.out.println("true");
19         }
20         else{
21             System.out.println("false");
```

Provide Custom Input

Compile and Test   Submit Code

```
371
```

Learn Practice Get Hired IDE

Hi, somya.gu pta_cs22

{...} Code Editor   Java 8 ▼

```java
import java.util.*;
public class Main {
    public static void main(String args[]) {
        Scanner input=new Scanner (System.in);
        int n=input.nextInt();
        int i=0;
        while(i<n)
        {
            int car1=input.nextInt();
            int sum=0,sum2=0,rem=0;
            while(car1>0){
                rem=car1%10;
                if(rem%2!=0){
                    sum=sum+rem;
                }
                else{
                    sum2=sum2+rem;
                }
                car1=car1/10;
            }
            if (sum2%4==0||sum%3==0){
```

^ **Provide Custom Input**   Compile and Test   Submit Code

```
2
12345
12134
```

Learn Practice Get Hired IDE

Hi, somya.gu pta_cs22

{...} Code Editor   Java 8 ▼

```java
        while(sum_ay>=0 && sum_hr>=0){
            sum_ay=sum_ay+ay;
            sum_hr=sum_hr+hr;
            ay+=2;
            hr+=2;
            if(sum_ay>=m){
                System.out.println("Harshit");
                break;
            }
            else if(sum_hr>=n){
                System.out.println("Aayush");
                break;
            }
            else{
                continue;
            }
        }
        i++;
        }
        }
}
```

^ **Provide Custom Input**   Compile and Test   Submit Code

```
2
9 3
8 11
```

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Hi, somya.gu pta_cs22

```
21            }
22        return sum;
23    }
24    static boolean isBostonNumber(int n){
25        int digitSum=sumOfDigits(n);
26        int primeFactorSum = sumOfprimeFactor(n);
27        return digitSum==primeaFctorSum;
28    }
29    public static void Main(String args[]){
30        Scanner scanner=new Scanner(System.in);
31        int N=scanner.nextInt();
32
33        if(isBotonNumber(N)){
34            System.out.println("1");
35        }
36        else{
37            System.out.println("0");
38        }
39    }
40 }
41
```

^ Provide Custom Input

Compile and Test   Submit Code

378

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Hi, somya.gu pta_cs22

{...} Code Editor   Java 8

```
1  import java.util.*;
2  public class Main {
3      public static void main(String args[]) {
4      Scanner input=new Scanner (System.in);
5      int t=input.nextInt();
6      int i=0;
7      while(t>i){
8      int m=input.nextInt();
9      int n=input.nextInt();
10     int sum_ay=0,ay=1;
11     int sum_hr=0,hr=2;
12     while(sum_ay>=0 && sum_hr>=0){
13         sum_ay=sum_ay+ay;
14         sum_hr=sum_hr+hr;
15         ay+=2;
16         hr+=2;
17         if(sum_ay>=m){
18             System.out.println("Harshit");
19             break;
20         }
21         else if(sum_hr>=n){
```

^ Provide Custom Input

Compile and Test   Submit Code

2
9 3
8 11

https://hack.codingblocks.com/app/contests/4475/495/problem

Hi, somya.gu pta_cs22

{...} Code Editor   Java 8

```java
import java.util.Scanner;
public class Main {
    static int sumOfDigits(int n){
        int sum=0;
        while (n>0){
            sum+=n%10;
            n/=10;
        }
        return sum;
    }
    static int sumofPrimeFactors(int n){
        int sum=0;
        for(int i=2;i*i<=n;i++){
            while(n%i==0){
                sum+=sumOfDigits(i);
                n/=i;
            }
        }
        if(n>1){
            sum+=sumOfDigits(n);
        }
```

^ Provide Custom Input   Compile and Test   Submit Code

378

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https://hack.codingblocks.com/app/contests/4475/291/problem

Hi, somya.gu pta_cs22

{...} Code Editor   Java 8

```java
        int n1=input.nextInt();
        int n2=input.nextInt();
        for(int i=n1;i<=n2;i++){
        int rem,rev=0,count=0,check=i,remainder,c=i;

            while(check>0){
                rem=check%10;
                count++;
                check=check/10;
            }
            while(c>0){
                remainder=c%10;
                rev=(int)Math.pow(remainder,count)+rev;
                c=c/10;
            }
            if(rev==i){
                System.out.println(i);
            }

        }
    }
```

^ Provide Custom Input   Compile and Test   Submit Code

400
1000

{...} Code Editor   Java 8

```java
import java.util.*;
public class Main {
    public static void main(String args[]) {
        Scanner input=new Scanner(System.in);

        int a[]=new int[1000];
        int sum=0;
        for(int i=0;i<a.length;i++){
            a[i]=input.nextInt();
            sum=sum+a[i];
            if(sum<0)
                break;
            else
                System.out.println(a[i]);
        }
    }
}
```

^ Provide Custom Input   Compile and Test   Submit Code

```
1
2
88
-100
49
```

{...} Code Editor   Java 8

```java
import java.util.*;
public class Main {
    public static void main(String args[]) {
        Scanner input=new Scanner (System.in);
        int n1=input.nextInt();
        int n2=input.nextInt();
        for(int i=n1;i<=n2;i++){
        int rem,rev=0,count=0,check=1,remainder,c=i;

            while(check>0){
                rem=check%10;
                count++;
                check=check/10;
            }
            while(c>0){
                remainder=c%10;
                rev=(int)Math.pow(remainder,count)+rev;
                c=c/10;
            }
            if(rev==i){
                System.out.println(i);
```

^ Provide Custom Input   Compile and Test   Submit Code

```
400
1000
```

{...} Code Editor

Java 8

```java
import java.util.*;
public class Main {
    public static void main(String args[]) {
        Scanner input=new Scanner (System.in);
        int n=input.nextInt();
        int x=input.nextInt();
        int sol=0;
        for(int i=1;i<=n;i++){
            sol=(3*i)+2;
            if(sol%x==0){
                n++;
            }
            else{
                System.out.println(sol);
            }
        }
    }
}
```

Provide Custom Input

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```
10
4
```

{...} Code Editor

Java 8

```java
        Scanner input=new Scanner(System.in);
        long n=input.nextLong();
        long ans=0;
        if(n==0)
        ans=5;
        long mul=1;
        while(n!=0){
            long rem=n%10;
            if(rem==0){
                long k=rem+5;
                ans=ans+k*mul;
            }
            else{
                ans=ans+rem*mul;
            }
            mul*=10;
            n=n/10;
        }
        System.out.println(ans);
    }
```

Provide Custom Input

Compile and Test   Submit Code

```
102
```

{...} Code Editor   Java 8

```java
import java.util.*;
public class Main {
    public static void main(String args[]) {
        Scanner input=new Scanner(System.in);
        long n=input.nextLong();
        long ans=0;
        if(n==0)
        ans=5;
        long mul=1;
        while(n!=0){
            long rem=n%10;
            if(rem==0){
                long k=rem+5;
                ans=ans+k*mul;
            }
            else{
                ans=ans+rem*mul;
            }
            mul*=10;
            n=n/10;
        }
```

^ Provide Custom Input   Compile and Test   Submit Code

102

```java
import java.util.Scanner;
public class Main {
    public static void main(String[] args) {
        Scanner scanner=new Scanner(System.in);
        String input=scanner.nextLine();
        char[] digits=input.toCharArray();
        if(digits[0]>'5'){
            digits[0]=(char)('9'-digits[0]+'0');
        }
        for(int i=1;i<digits.length;i++){
            if(digits[i]>'4'){
                digits[i]=(char)('9'-digits[i]+'0');
            }
        }
        if(digits[0]=='0'){
            digits[0]='9';
        }
        String result=new String(digits);
        System.out.println(result);
    }
}
```

^ Provide Custom Input   Compile and Test   Submit Code

4545