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Sum of odd placed and even placed digits

Medium | **283** | **100**
Difficulty | Submissions | Max Points

Status: Accepted

100/100 Points

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Problem | Submissions | Leaderboard | Discuss

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Take N as input. Print the sum of its odd placed digits and sum of its even placed digits.

Input Format

Constraints

0 < N <= 1000000000

Output Format

Sample Input

2635

Sample Output

11
5

About the Authors

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{...} Code Editor   Java 8 ▼

```
2
3
4        public static void main(String args[]) {
5    Scanner sc=new Scanner(System.in);
6        String s[]=sc.next().split("");
7        int a[]=new int[s.length];
8        for(int i=0;i<s.length;i++)
9        {
10           a[i]=Integer.parseInt(s[i]);
11       }
12       int even=0,odd=0;
13       for(int i=a.length-1;i>=0;i--)
14       {
15           int pos=a.length-i+1;
16           if(pos%2==0)
17           even=even+a[i];
18           else
19           odd=odd+a[i];
20       }
21       System.out.println(even);
22       System.out.println(odd);
23
```

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Contests ⟩ ISA-JAVA-ASSIGNMENT 2 ⟩ Content ⟩ Problem

Is Armstrong Number

Medium	135	100
Difficulty	Submissions	Max Points

Status: Accepted

100/100 Points

Problem   Submissions   Leaderboard   Discuss

Take the following as input.

A number
Write a function which returns true if the number is an armstrong number and false otherwise, where Armstrong number is defined as follows.

A positive integer of n digits is called an Armstrong number of order n (order is number of digits) if.

abcd... = pow(a,n) + pow(b,n) + pow(c,n) + pow(d,n) + ...

1634 is an Armstrong number as 1634 = 1^4 + 6^4 + 3^4 + 4^4

371 is an Armstrong number as 371 = 3^3 + 7^3 + 1^3

Input Format

Rate this problem?

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{...} Code Editor   Java 8 ▾

```java
1   import java.util.*;
2    public class Main {
3
4      public static void main(String[] args) {
5          Scanner input=new Scanner(System.in);
6          int n=input.nextInt(),i=n;
7          int sum=0;
8          int k=(int)(Math.log10(n)+1);
9          while(i>0){
10             int rem=i%10;
11             i /=10;
12             sum+=(int)(Math.pow(rem,k));
13         }
14         if(n==sum){
15             System.out.println("true");
16
17         }
18         else{
19             System.out.println("false");
20         }
21     }
```

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371

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Contests ❯ ISA-JAVA-ASSIGNMENT 2 ❯ Content ❯ Problem

Odd and Even back in Delhi

Easy Difficulty | **120** Submissions | **100** Max Points

Status: Accepted

100/100 Points

| Problem | Submissions | Leaderboard | Discuss |

Due to an immense rise in Pollution, Kejriwal is back with the Odd and Even Rule in Delhi. The scheme is as follows, each car will be allowed to run on Sunday if the sum of digits which are even is divisible by 4 or sum of digits which are odd in that number is divisible by 3. However to check every car for the above criteria can't be done by the Delhi Police. You need to help Delhi Police by finding out if a car numbered N will be allowed to run on Sunday?

Input Format

The first line contains N , then N integers follow each denoting the number of the car.

Constraints

N<=1000 Car No >=0 && Car No <=1000000000

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```java
2    public class Main {
3        public static void main(String args[]) {
4            Scanner input=new Scanner(System.in);
5            int n=input.nextInt();
6            for(int i=0;i<n;i++){
7                int carno=input.nextInt();
8                int even=0,odd=0,k=1;
9                while(carno>0){
10                   int add=carno %10;
11                   carno/=10;
12                   if(k%2==0){
13                       even+=add;
14                   }
15                   else{
16                       odd+=add;
17                   }
18                   k++;
19               }
20               if((even%4==0)|(odd%3==0)){
21                   System.out.println("Yes");
22               }
```

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```
2
12345
12134
```

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Contests ❭ ISA-JAVA-ASSIGNMENT 2 ❭ Content ❭ Problem

Shopping Game

| Easy | 122 | 100 |
| Difficulty | Submissions | Max Points |

Status: **Accepted**

━━━━━━━━ 100/100 Points

Problem   Submissions   Leaderboard   Discuss

Faculty at CodingBlocks loves to purchase smartphones and decides to play a game. Aayush and Harshit decides to shop for smartphones. Aayush purchases 1 smartphone, then Harshit purchases 2 smartphones, then Aayush purchases 3 smartphones, then Harshit purchases 4 smartphones, and so on. Once someone can't purchase more smartphones, he loses.

Aayush can purchase at most M smartphones and Harshit can purchase at most N smartphones. Who will win ? Print "Aayush" and "Harshit" accordingly.

Input Format

The first line of the input contains an integer T denoting the number of test cases. The description of T test cases follows. Two integers M and N denoting the maximum possible number of smartphones Aayush and Harshit can purchase respectively.

Constraints

Rate this problem?

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{...} Code Editor   Java 8

```java
1   import java.util.*;
2
3   public class Main {
4       public static void main(String[] args) {
5           Scanner sc = new Scanner(System.in);
6           int T = sc.nextInt();
7           while(T-- > 0) {
8               int M = sc.nextInt();
9               int N = sc.nextInt();
10              int i = 1;
11              while(true) {
12                  if(i % 2 == 1) {
13                      if(M < i) {
14                          System.out.println("Harshit");
15                          break;
16                      }
17                      M -= i;
18                  } else {
19                      if(N < i) {
20                          System.out.println("Aayush");
21                          break;
```

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2
9 3
8 11

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Contests ⟩ ISA-JAVA-ASSIGNMENT 2 ⟩ Content ⟩ Problem

Boston Numbers

Medium	120	100
Difficulty	Submissions	Max Points

Status: **Accepted**

**100/100
Points**

Problem   Submissions   Leaderboard   Discuss

A Boston number is a composite number, the sum of whose digits is the sum of the digits of its prime factors obtained as a result of prime factorization (excluding 1). The first few such numbers are 4,22 ,27 ,58 ,85 ,94 and 121 . For example, $378 = 2 \times 3 \times 3 \times 3 \times 7$ is a Boston number since $3 + 7 + 8 = 2 + 3 + 3 + 3 + 7$. Write a program to check whether a given integer is a Boston number.

Input Format

There will be only one line of input:N , the number which needs to be checked.

Constraints

$1 < N < 2,147,483,647$ (max value of an integer of the size of 4 bytes)

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{...} Code Editor   Java 8 ⌄

```java
class Main {

    public static int sumOfDigits(int num) {
        int sum = 0;
        while (num > 0) {
            int digit = num % 10;
            sum += digit;
            num /= 10;
        }
        return sum;
    }


    public static int sumOfPrimeFactors(int num) {
        int sum = 0;
        for (int i = 2; i <= num; i++) {
            while (num % i == 0) {
                sum += sumOfDigits(i);
                num /= i;
            }
```

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378

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Contests ❯ ISA-JAVA-ASSIGNMENT 2 ❯ Content ❯ Problem

Check prime

Medium	281	100
Difficulty	Submissions	Max Points

Status: **Accepted**

100/100
Points

Problem	Submissions	Leaderboard	Discuss

Take as input a number N, print "Prime" if it is prime if not Print "Not Prime".

Input Format

Constraints

2 < N <= 1000000000

Output Format

Sample Input

3

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The output is case specific

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```java
1   import java.util.*;
2   public class Main {
3       public static void main(String args[]) {
4           Scanner sc=new Scanner(System.in);
5           int a=sc.nextInt();
6           int ans=0;
7           for(int i=2;i<a;i++){
8               if(a%i==0){
9                   ans=1;
10                  break;
11              }
12          }
13          if(ans==0){
14              System.out.println("Prime");
15          }
16          else{
17              System.out.println("Not Prime");
18          }
19      }
20  }
```

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Print reverse

Easy	224	100
Difficulty	Submissions	Max Points

Status: Accepted

100/100 **Points**

Problem	Submissions	Leaderboard	Discuss

Take N as input, Calculate it's reverse also Print the reverse.

Input Format

Constraints

0 <= N <= 1000000000

Output Format

Sample Input

123456789

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{...} Code Editor   Java 8 ▾

```java
1    import java.util.*;
2    public class Main {
3        public static void main(String args[]) {
4            // Your Code Here
5            int N;int rev=0;int rem;
6        Scanner sc=new Scanner(System.in);
7
8        N=sc.nextInt();
9
10       while(N!=0){
11         rem=N%10;
12         rev=rev*10+rem;
13         N=N/10;
14       }
15       System.out.println(+rev);
16       }
17   }
18
```

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123456789

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Binary To Decimal

Medium	155	100
Difficulty	Submissions	Max Points

Status: **Accepted**

100/100 Points

Problem	Submissions	Leaderboard	Discuss

Take N (number in binary format). Write a function that converts it to decimal format and Print the value returned.

Input Format

Constraints

0 < N <= 1000000000

Output Format

Sample Input

101010

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{...} Code Editor   Java 8 ▾

```java
2   public class Main {
3       public static void main(String args[]) {
4           Scanner sc=new Scanner(System.in);
5           int n=sc.nextInt();
6           int pow=0;
7           int dec=0;
8           int r=0;
9           while(n>0){
10              r=n%10;
11              n=n/10;
12              dec+=Math.pow(2,pow)*r;
13              pow++;
14          }
15          System.out.print(dec);
16
17      }
18  }
```

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101010

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Contests 〉 ISA-JAVA-ASSIGNMENT 2 〉 Content 〉 Problem

LCM

Medium | **164** | **100**
Difficulty | Submissions | Max Points

Status: Accepted
100/100 Points

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| Problem | Submissions | Leaderboard | Discuss |

Take the following as input.

A number (N1)
A number (N2)
Write a function which returns the LCM of N1 and N2. Print the value returned.

Input Format

Constraints

$0 < N1 < 1000000000$
$0 < N2 < 1000000000$

Output Format

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called the LCM of N1 and N2.

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```java
1   import java.util.*;
2   public class Main {
3       public static void main(String args[]) {
4           Scanner sc=new Scanner(System.in);
5
6           int N1=sc.nextInt();
7
8           int N2=sc.nextInt();
9           int lcm=(N1>N2)?N1:N2;
10          while(true){
11              if(lcm%N1==0&&lcm%N2==0){
12                  System.out.print(lcm);
13                  break;
14              }
15              ++lcm;
16
17
18          }
19      }
20  }
```

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Nth Fibonacci (Hard)

Medium	177	100
Difficulty	Submissions	Max Points

Status: **Accepted**

100/100 Points

Problem	Submissions	Leaderboard	Discuss

Take N as input. Print Nth Fibonacci Number, given that the first two numbers in the Fibonacci Series are 0 and 1.

Input Format

Constraints

$0 <= N <= 1000$

Output Format

Sample Input

10

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Explanation

The 0th fibonnaci is 0 and 1st fibonnaci is 1.

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{...} Code Editor   Java 8 ▾

```java
1    import java.util.*;
2    public class Main {
3        public static void main(String args[]) {
4            Scanner sc=new Scanner(System.in);
5            int number=sc.nextInt();
6            int f0=0,f1=1;
7            while(number>0){
8                int temp=f1;
9                f1+=f0;
10               f0=temp;
11               number--;
12           }
13           System.out.println(f0);
14       }
15   }
16
```

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Conversion (Fahrenheit to Celsius)

| Medium | 181 | 100 |
| Difficulty | Submissions | Max Points |

Status: Accepted

100/100 Points

| Problem | Submissions | Leaderboard | Discuss |

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Take the following as input.

Minimum Fahrenheit value
Maximum Fahrenheit value
Step

Print as output the Celsius conversions. Use the formula $C = (5/9)(F - 32)$ E.g. for an input of 0, 100 and 20 the output is
0 -17
20 -6
40 4
60 15
80 26
100 37

29°C
Haze

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```
80  26
100 37
```

Explanation

First number in every output line is fahrenheit, second number
is celsius. The two numbers are separated by a tab.

{...} Code Editor   Java 8 ▾

```java
 4  {
 5      public static void main (String args[]){
 6          Scanner sc=new Scanner(System.in);
 7          int mint=sc.nextInt();
 8          int maxt=sc.nextInt();
 9          int count=sc.nextInt();
10          while(mint<=maxt){
11              System.out.print(mint);
12              System.out.print(' ');
13              System.out.println((mint-32)*5/9);
14              mint=mint+count;
15          }
16      }
17  }
```

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Print Series

Medium	122	100
Difficulty	Submissions	Max Points

Status: Accepted

100/100 Points

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Problem	Submissions	Leaderboard	Discuss

Take the following as input.

A number (N1)
A number (N2)
Write a function which prints first N1 terms of the series 3n + 2 which are not multiples of N2.

Input Format

Constraints

0 < N1 < 100 0 < N2 < 100

Output Format

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Explanation

The output will've N1 terms which are not divisible by N2.

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```java
2    public class Main {
3        public static void main(String args[]) {
4            Scanner sc=new Scanner(System.in);
5            int n1=sc.nextInt();
6            int n2=sc.nextInt();
7            int count=1;
8            for(int i=1;count<=n1;i++){
9                int value =3*i+2;
10               if (value%n2!=0){
11                   System.out.println(value);
12                   count=count+1;
13               }
14           }
15
16       }
17   }
```

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Simple Input

Easy	139	100
Difficulty	Submissions	Max Points

Status: **Accepted**

100/100
Points

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| Problem | Submissions | Leaderboard | Discuss |

Given a list of numbers, stop processing input after the cumulative sum of all the input becomes negative.

Input Format

A list of integers to be processed

Constraints

All numbers input are integers between -1000 and 1000.

Output Format

Print all the numbers before the cumulative sum become negative.

Rate this problem?

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IN

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Sample Output

```
1
2
88
```

{...} Code Editor   Java 8 ▾

```java
1    import java.util.*;
2    public class Main {
3        public static void main(String args[]) {
4            Scanner sc=new Scanner(System.in);
5            int sum=0;
6            while(true){
7                int n=sc.nextInt();
8                sum=sum+n;
9                if(sum>=0){
10                   System.out.println(n);
11               }
12               else{
13                   break;
14               }
15           }
16
17       }
18   }
```

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Near record

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Contests 〉 ISA-JAVA-ASSIGNMENT 2 〉 Content 〉 Problem

Print Armstrong Numbers

Medium Difficulty	151 Submissions	100 Max Points	Status: **Accepted** 100/100 Points

Problem	Submissions	Leaderboard	Discuss

Take the following as input.

A number (N1)
A number (N2)
Write a function which prints all armstrong numbers between N1 and N2 (inclusive).

371 is an Armstrong number as 371 = 3^3 + 7^3 + 1^3

Input Format

Constraints

0 < N1 < 100 N1 < N2 < 10000

Rate this problem?

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{...} Code Editor   Java 8 ⌄

```java
1   import java.util.*;
2   public class  Main {
3       public static void main(String[] args) {
4           Scanner sc=new Scanner(System.in);
5           int n1=sc.nextInt();
6           int n2=sc.nextInt();
7
8           printArmstrongNumbers(n1, n2);
9       }
10
11
12      public static boolean isArmstrong(int num) {
13          int originalNum, remainder, result = 0;
14          originalNum = num;
15
16          while (originalNum != 0) {
17              remainder = originalNum % 10;
18              result += Math.pow(remainder, 3); // For a 3-digit Armstrong number
19              originalNum /= 10;
20          }
21
```

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400
1000

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Contests ⟩ ISA-JAVA-ASSIGNMENT 2 ⟩ Content ⟩ Problem

Replace Them All | **Easy** Difficulty | **297** Submissions | **100** Max Points

Status: Accepted

100/100 Points

Dashboard

Daily Code

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Compete

| Problem | Submissions | Leaderboard | Discuss |

Given a integer as a input and replace all the '0' with '5' in the integer

Input Format

Enter an integer n

Constraints

0<=n<=1000000000000

Output Format

All zeroes are replaced with 5

Rate this problem?

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{...} Code Editor   Java 8 ⌄

```java
1   import java.util.*;
2   public class Main{
3       public static void main(String[]args){
4           Scanner sc=new Scanner (System.in);
5           long n=sc.nextLong();
6           long add=0,p=1;
7           if(n==0){
8               add=5;
9           }
10          else{
11              while(n>0){
12                  long rem=n%10;
13                  if(rem==0){
14                      rem=5;
15                  }
16                  add+=rem*p;
17                  p*=10;
18                  n/=10;
19              }
20          }
21          System.out.print(add);
```

▲ Provide Custom Input   Compile and Test   Submit Code

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Contests 〉 ISA-JAVA-ASSIGNMENT 2 〉 Content 〉 Problem

Chewbacca and Number

Easy	222	100
Difficulty	Submissions	Max Points

Status: Accepted

100/100 Points

| Problem | Submissions | Leaderboard | Discuss |

Luke Skywalker gave Chewbacca an integer number x. Chewbacca isn't good at numbers but he loves inverting digits in them. Inverting digit t means replacing it with digit 9 - t.

Help Chewbacca to transform the initial number x to the minimum possible positive number by inverting some (possibly, zero) digits. The decimal representation of the final number shouldn't start with a zero.

Input Format

The first line contains a single integer x (1 ≤ x ≤ 10^18) — the number that Luke Skywalker gave to Chewbacca.

Constraints

x <= 1000000000000000000

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{...} Code Editor   Java 8 ⌄

```java
1   import java.util.*;
2   public class Main {
3       public static void main(String args[]) {
4           Scanner sc=new Scanner(System.in);
5           long n=sc.nextLong(),sum=0L,mu1=1L;
6           while(n>0){
7               long rem=n%10;
8               long te=9-rem;
9               if(rem>te && te!=0){
10                  rem=te;
11              }
12              if(rem==9&& n/10!=0){
13                  rem=0;
14              }
15              sum=sum+rem*mu1;
16              n/=10;
17              mu1=mu1*10;
18          }
19          System.out.print(sum);
20      }
21  }
```

∧ Provide Custom Input   Compile and Test   Submit Code

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GCD

Easy | **114** | **100**
Difficulty | Submissions | Max Points

Status: Accepted

100/100
Points

| Problem | Submissions | Leaderboard | Discuss |

Take the following as input.

A number (N1)
A number (N2)
Write a function which returns the GCD of N1 and N2. Print the value returned.

Input Format

Two integers seperated by a new line.

Constraints

$0 < N1 < 1000000000$
$0 < N2 < 1000000000$

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Explanation

The largest number that divides both N1 and N2 is called the GCD of N1 and N2.

{...} Code Editor   Java 8 ⌄

```java
import java.util.*;
public class Main {
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        int N1=sc.nextInt();
        int N2=sc.nextInt();
        int HCF=0;
        for(int i=1;i<=N1||i<=N2;i++){
            if(N1%i==0&&N2%i==0)
                HCF=i;
        }
        System.out.print(HCF);
    }
}
```

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Inverse of number

Medium | **133** | **100**
Difficulty | Submissions | Max Points

Status: Accepted

100/100 Points

Problem | Submissions | Leaderboard | Discuss

Take the following as input.
A number
Assume that for a number of n digits, the value of each digit is from 1 to n and is unique. E.g. 32145 is a valid input number.

Write a function that returns its inverse, where inverse is defined as follows

Inverse of 32145 is 12543. In 32145, "5" is at 1st place, therefore in 12543, "1" is at 5th place; in 32145, "4" is at 2nd place, therefore in 12543, "2" is at 4th place.

Print the value returned.

Input Format

Integer

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in 12543, "1" is at 5th place; in 32145, "4" is at 2nd place,
therefore in 12543, "2" is at 4th place.

{...} Code Editor   Java 8 ▾

```java
1    import java.util.*;
2
3    public class Main {
4      public static void main(String[] args) {
5        Scanner scn = new Scanner(System.in);
6        int n = scn.nextInt();
7
8        int inv = 0; //inverted number at the tart
9        int op = 1; // original place
10
11       while (n > 0) {
12         int od = n % 10; //last digit  of original number
13         int id = op; // id =  inverted digit
14         int ip = od; // ip =  inverted place
15         //Make change to inv  using ip and id
16         inv = inv + (id * (int) Math.pow(10, ip - 1));
17         n = n / 10;
18         op++;
19       }
20       System.out.println(inv);
21     }
```

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Count Digits

Medium	232	100
Difficulty	Submissions	Max Points

Status: Accepted

100/100
Points

Problem   Submissions   Leaderboard   Discuss

Take the following as input.
A number
A digit
Write a function that returns the number of times digit is found in the number. Print the value returned.

Input Format

Integer (A number) Integer (A digit)

Constraints

0 <= N <= 1000000000 0 <= Digit <= 9

Output Format

Integer (count of times digit occurs in the number)

Sample Input

5433231

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{...} Code Editor   Java 8 ▾

```
1   import java.util.*;
2   class Main
3   {
4   static int frequencyDigits(int n,
5                               int d)
6   {
7       int c = 0;
8       while (n > 0)
9       {
10          if (n % 10 == d)
11              c++;
12          n = n / 10;
13      }
14      return c;
15  }
16  public static void main(String args[])
17  {
18
19      Scanner sc=new Scanner(System.in);
20      int N = sc.nextInt();
21      int D =sc.nextInt();
```

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