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Assignment: object oriented programming(BCSC 1002)

The screenshot shows a web browser window with the URL <https://hack.codingblocks.com/app/problems/4475/25/problem>. The page displays a coding challenge:

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

Input Format: 0 < N <= 1000000000

Output Format:

Sample Input: 2635

Sample Output: 11
5

Explanation:

5 is present at 1st position, 3 is present at 2nd position, 6 is present at 3rd position and 2 is present at 4th position.
Sum of odd placed digits on first line, 5 and 6 are placed at odd position. Hence odd place sum is 5+6=11
Sum of even placed digits on second line, 3 and 2 are placed at even position. Hence even place sum is 3+2=5

About the Authors: View Profile

Code Editor (Java 8):

```
1 import java.util.*;
2 public class Main {
3
4     public static void main(String args[]) {
5         Scanner sc=new Scanner(System.in);
6         String s1=sc.nextLine();
7         int a[]=new int[s1.length()];
8         for(int i=0;i<s1.length();i++)
9         {
10             a[i]=Integer.parseInt(s1.substring(i,i+1));
11         }
12         int even=0,odd=0;
13         for(int i=a.length-1;i>-1;i--)
14         {
15             int pos=a.length-i-1;
16             if(pos%2==0)
17                 even+=a[i];
18             else
19                 odd+=a[i];
20         }
21         System.out.println(even);
22     }
23 }
```

Buttons: Provide Custom Input, Compile and Test, Submit Code

The screenshot shows a web browser window with the URL <https://hack.codingblocks.com/app/problems/4475/100/problem>. The page displays a solved problem titled "Print reverse". The problem details are as follows:

- Difficulty:** Easy
- Submissions:** 135
- Max Points:** 100
- Status:** Accepted (100/100 Points)

The problem description states: "Take N as input, Calculate its reverse also Print the reverse." The input format is "0 <= N <= 1000000000". Sample input is "123456789" and sample output is "987654321".

On the right side, there is a "Rate this problem?" section with a 5-star rating and a "Submit Feedback" button. Below it is an "About the Authors" section.

At the bottom, there is a code editor window titled "... Code Editor" with Java 8 selected. The code is:import java.util.*;
public class Main {
 public static void main(String[] args) {
 Scanner input = new Scanner(System.in);
 int number = input.nextInt(), reverse = 0;
 while (number > 0) {
 int rem = number % 10;
 reverse += rem * (int) (Math.pow(10, (int) (Math.log10(number))));
 number /= 10;
 }
 System.out.println(reverse);
 }
}

Below the code editor are buttons for "Provide Custom Input", "Compile and Test", and "Submit Code".

The screenshot shows a web browser window with multiple tabs open. The active tab displays a programming challenge titled "Count Digits" from the "Hackerblocks" platform. The problem is categorized as "Medium" with a difficulty rating of 139, 100 submissions, and 100 max points. The status is "Accepted" with 100/100 points. The problem statement asks to take a number as input and return the count of a specific digit. It provides input and output formats, constraints (0 ≤ N ≤ 100,000,000 and 0 ≤ Digit ≤ 9), and sample input/output. A note specifies that the digit can be from 0 to 9 and assumes decimal numbers. The code editor shows a Java solution that uses a Scanner to read the number and item, then iterates through the digits to count occurrences.

Count Digits

Medium | 139 Submissions | 100 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
 $0 \leq N \leq 100,000,000$ $0 \leq \text{Digit} \leq 9$

Output Format
Integer (count of times digit occurs in the number)

Sample Input

The digit can be from 0 to 9. Assume decimal numbers. In the given case digit 3 is occurring 3 times in the given number.

(...) Code Editor Java 8

```
1 import java.util.*;
2 class Countdigit {
3     public static void main(String args[]) {
4         Scanner sc = new Scanner(System.in);
5         int num = sc.nextInt();
6         int item = sc.nextInt();
7         countDigit(num, item);
8     }
9     public static void countDigit(int num, int item) {
10        int count = 0;
11
12        while(num != 0) {
13            int n = num % 10;
14            if (n == item) {
15                count++;
16            }
17            num /= 10;
18        }
19        System.out.print(count);
20    }
21 }
```

The screenshot shows two instances of the Hackerblocks web application interface. The top instance displays a solved problem titled "Binary To Decimal". The problem details indicate it is Medium difficulty with 99 submissions and 100 max points, and the status is "Accepted" with 100/100 points. The bottom instance shows a code editor for the same problem, displaying Java code to convert binary to decimal. The Java code uses a Scanner to read input and a while loop to calculate the decimal value.

Binary To Decimal

Medium | 99 Submissions | 100 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`

Sample Output

`42`

Rate this problem?

Help us improve.

Submit Feedback

About the Authors

Java 8

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

Provide Custom Input

Compile and Test

Submit Code

101010

Hi, lakshya.mittal.cs22

LCM

Medium | 113 Submissions | 100 Max Points

Status: Accepted
100/100 Points

Problem

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

Sample Input

4
6

Rate this problem?

★★★★★

Help us improve.

Submit Feedback

31°C Heavy rain

Hi, lakshya.mittal.cs22

LCM

Medium | 113 Submissions | 100 Max Points

Status: Accepted
100/100 Points

Problem

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

Sample Input

4
6

Rate this problem?

★★★★★

Help us improve.

Submit Feedback

31°C Heavy rain

The image shows two screenshots of the Hackerblocks platform interface. Both screenshots are taken from a Windows desktop environment.

Top Screenshot (Problem Page):

- Header:** Shows tabs for WhatsApp, Hackerblocks, Movies - Watch Bollywood & Hollywood, and Watch Popular TV Serials, Shows.
- Sidebar:** Includes links for Dashboard, Daily Code, Contests (highlighted), Practice, Get Hired, and IDE.
- User Profile:** Hi, lakshya.mi ttal_cs22
- Problem Card:** Nth Fibonacci (Hard) | Medium | 110 Submissions | 100 Max Points | Status: Accepted | 100/100 Points
- Problem Description:** Take N as input. Print Nth Fibonacci Number, given that the first two numbers in the Fibonacci Series are 0 and 1.
- Input Format:** 0 <= N <= 1000
- Constraints:** None listed.
- Output Format:** None listed.
- Sample Input:** 10
- Sample Output:** 55
- Feedback:** Rate this problem? (5 stars) | Help us improve. | Submit Feedback
- Authors:** About the Authors

Bottom Screenshot (Code Editor):

- Header:** Shows tabs for WhatsApp, Hackerblocks, Movies - Watch Bollywood & Hollywood, and Watch Popular TV Serials, Shows.
- Sidebar:** Includes links for Dashboard, Daily Code, Contests, Practice (highlighted), Get Hired, and IDE.
- User Profile:** Hi, lakshya.mi ttal_cs22
- Code Editor:** Java 8 | ... Code Editor
- ```
1 import java.util.*;
2
3 public class Main {
4 public static void main(String[] args) {
5 Scanner input = new Scanner(System.in);
6 int number = input.nextInt();
7 int f0 = 0, f1 = 1;
8 while (number > 0) {
9 int temp = f1;
10 f1 += f0;
11 f0 = temp;
12 number--;
13 }
14 System.out.println(f0);
15 }
16 }
17 }
```
- Input/Output:** Provide Custom Input | Compile and Test | Submit Code
- System Status:** ENG IN | 2:49 PM | 16/09/2023

The screenshot shows a web browser window with multiple tabs open. The active tab displays a contest problem titled "Nth Fibonacci (Hard)" with a difficulty level of "Medium". The problem has been solved by 111 users and has a maximum point value of 100. The status is "Accepted" with 100/100 points. The sidebar on the left includes links for Dashboard, Daily Code, Contests, Practice, and Compete. On the right, there's a "Rate this problem?" section with a 5-star rating and a "Submit Feedback" button. Below it is an "About the Authors" section.

**Nth Fibonacci (Hard) Medium**

Difficulty: 111 Submissions: 100 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

Sample Output  
55

**Rate this problem?**

Help us improve.

**Submit Feedback**

**About the Authors**

**Code Editor** Java 8

```
1 import java.util.*;
2
3 public class Main {
4 public static void main(String[] args) {
5 Scanner input = new Scanner(System.in);
6 int number = input.nextInt();
7 int f0 = 0, f1 = 1;
8 while (number > 0) {
9 int temp = f1;
10 f1 += f0;
11 f0 = temp;
12 number--;
13 }
14 System.out.println(f0);
15 }
16 }
17 }
```

Provide Custom Input

Compile and Test Submit Code

10

**Conversion (Fahrenheit to Celsius)**

Medium | 109 Submissions | 100 Max Points

Status: Accepted  
100/100 Points

**Problem**

Take the following as input.

Minimum Fahrenheit value  
Maximum Fahrenheit value  
Step

Print as output the Celsius conversions. Use the formula  $C = \frac{5}{9}(F - 32)$ . E.g. for an input of 0, 100 and 20 the output is

0 -6  
20 -6  
40 4  
60 15  
80 26  
100 37

**Input Format**

The first line of the input contains an integer denoting the Minimum Fahrenheit value. The second line of the input contains an integer denoting the Maximum Fahrenheit value. The third line of the input contains an integer denoting the Step.

**Output Format**

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

**About the Authors**

Help us improve.

Submit Feedback

**Code Editor**

```
1 import java.util.Scanner;
2
3 public class Main {
4 public static void main(String[] args) {
5 Scanner input = new Scanner(System.in);
6 int mint = input.nextInt();
7 int maxt = input.nextInt();
8 int count = input.nextInt();
9 while (mint <= maxt) {
10 System.out.print(mint);
11 System.out.print(' ');
12 System.out.println((mint - 32) * 5 / 9);
13 mint = mint + count;
14 }
15 }
16 }
17 }
```

The screenshot shows a web browser window with multiple tabs open. The active tab is for a challenge titled "Inverse of number" on the website [hack.codingblocks.com/app/problems/4475/698](https://hack.codingblocks.com/app/problems/4475/698). The challenge details indicate it is a Medium difficulty problem with 76 submissions and 100 max points, and the status is "Accepted" with 100/100 points. The challenge description asks for the inverse of a number where each digit is unique. It provides sample input (32145) and output (12543). The input format is Integer, and constraints are 0 < N < 1000000000. On the right, there is a "Rate this problem?" section with a 5-star rating and a "Submit Feedback" button. The browser's sidebar on the left shows various navigation links: Dashboard, Daily Code, Contests, Practice, and Compete. The system tray at the bottom shows weather information (31°C, Heavy rain) and system status (ENG IN, 2:53 PM, 16/09/2023).

Inverse of number    Medium    76 Submissions    100 Max Points

Status: Accepted    100/100 Points

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.

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.

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

Print the value returned.

**Input Format**

Integer

**Constraints**

$0 < N < 1000000000$

Rate this problem?

Help us improve.

Submit Feedback

31°C Heavy rain

ENG IN 2:53 PM 16/09/2023

Code Editor

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

Provide Custom Input

Compile and Test

Submit Code

32145

31°C Heavy rain

ENG IN 2:53 PM 16/09/2023

The image shows two screenshots of the Hackerblocks platform interface, both displaying the same problem titled "Check prime".

**Top Screenshot (Problem View):**

- Header:** Shows tabs for WhatsApp, Hackerblocks, Movies - Watch Bollywood & Hollywood, and Watch Popular TV Serials, Shows.
- User Information:** Hi, lakshya.mi ttal\_cs22
- Navigation:** Dashboard, Learn, Practice, Get Hired, IDE.
- Problem Summary:** Check prime, Medium Difficulty, 190 Submissions, 100 Max Points, Status: Accepted, 100/100 Points.
- Problem Description:** Take as input a number N, print "Prime" if it is prime if not Print "Not Prime".
- Input Format:** Constraints:  $2 < N \leq 1000000000$ .
- Output Format:** Sample Input: 3.
- Feedback:** Rate this problem? (5 stars), Help us improve., Submit Feedback.

**Bottom Screenshot (Code Editor View):**

- Header:** Shows tabs for WhatsApp, Hackerblocks, Movies - Watch Bollywood & Hollywood, and Watch Popular TV Serials, Shows.
- User Information:** Hi, lakshya.mi ttal\_cs22
- Navigation:** Dashboard, Learn, Practice, Get Hired, IDE.
- Code Editor:** Java 8, Code: 

```
1 import java.util.Scanner;
2
3 public class Main {
4 public static void main(String[] args) {
5 Scanner input = new Scanner(System.in);
6 int number = input.nextInt();
7 int ans = 0;
8 for (int i = 2; i < number; i++) {
9 if (number % i == 0) {
10 ans = 1;
11 break;
12 }
13 }
14 if (ans == 0) {
15 System.out.println("Prime");
16 } else {
17 System.out.println("Not Prime");
18 }
19 }
20 }
21 }
```
- Buttons:** Provide Custom Input, Compile and Test, Submit Code.

GCD

Easy

Difficulty

76 Submissions

100 Max Points

Status: Accepted

100/100 Points

My Submissions

| Result   | Score   | Time | Language |
|----------|---------|------|----------|
| Accepted | 100/100 | --   | java     |

Copy code to editor

View 3 hours ago

Language Analytics

Help us improve.

Submit Feedback

About the Authors

Code Editor

```
1 import java.util.Scanner;
2
3 public class Main {
4 public static void main(String[] args) {
5 Scanner input = new Scanner(System.in);
6 int n1 = input.nextInt();
7 int n2 = input.nextInt();
8 while (n1 % n2 != 0) {
9 int temp = n2;
10 n2 = n1 % n2;
11 n1 = temp;
12 }
13 System.out.println(n2);
14 }
15 }
```

Provide Custom Input

Compile and Test

Submit Code

Replace Them All    Easy    243 Submissions    100 Max Points

Status: Accepted  
100/100 Points

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

**Input Format**  
Enter an integer n

**Constraints**  
 $0 \leq n \leq 1000000000000$

**Output Format**  
All zeroes are replaced with 5

**Sample Input**  
102

**Rate this problem?**

Help us improve.

Submit Feedback

About the Authors

Java 8

```
1 import java.util.Scanner;
2 public class Main {
3 public static void main(String args[]) {
4 Scanner input = new Scanner(System.in);
5 long n = input.nextLong();
6 long add = 0, p = 1;
7 if (n == 0) {
8 add = 5;
9 } else {
10 while (n > 0) {
11 long rem = n % 10;
12 if (rem == 0) {
13 rem = 5;
14 }
15 add += rem * p;
16 p *= 10;
17 n /= 10;
18 }
19 }
20 System.out.print(add);
21 }
22 }
```

Provide Custom Input    Compile and Test    Submit Code

The screenshot shows a web browser window with multiple tabs open. The active tab is on [hack.codingblocks.com](https://hack.codingblocks.com/app/problems/4475/201/problem), specifically for a contest problem.

**Problem Statement:**

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:**  
 $0 < N1 < 100$   $0 < N2 < 100$

**Constraints:**  
 $0 < N1 < 100$   $0 < N2 < 100$

**Output Format:**

**Sample Input:**  
10  
4

**Sample Output:**  
5  
11  
14  
17  
23  
26

**Rate this problem?**  
Help us improve.  
Submit Feedback

**About the Authors**  
View Profile

**Code Editor:**

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

Provide Custom Input  
Compile and Test  
Submit Code

10  
4

30°C Haze

5:39 PM 17/09/2023 ENG IN

**Simple Input**    **Easy**    **101** Submissions    **100** Max Points    Status: Accepted    100/100 Points

**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.

**Sample Input**

```
1
2
88
-100
```

**Rate this problem?**

Help us improve.

**Submit Feedback**

**About the Authors**

**Code Editor**

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

Provide Custom Input    Compile and Test    Submit Code

```
1
2
88
-100
```

The screenshot shows a web browser window with multiple tabs open. The active tab is on the website [hack.codingblocks.com/app/problems/4475/291/problem](https://hack.codingblocks.com/app/problems/4475/291/problem). The page displays a problem titled "Print Armstrong Numbers" with a difficulty level of Medium (120 submissions, 100 max points). The status is "Accepted" with 100/100 points. The sidebar on the left includes links for Dashboard, Daily Code, Contests, Practice, and Compete. The main content area has tabs for Problem, Submissions, Leaderboard, and Discuss. Below the tabs, there's a description asking for input numbers N1 and N2, stating that 371 is an Armstrong number as  $3^3 + 7^3 + 1^3$ . It specifies Input Format, Constraints ( $0 < N1 < 100$ ,  $N1 < N2 < 10000$ ), Output Format, and Sample Input. To the right, there's a "Rate this problem?" section with a 5-star rating and a "Submit Feedback" button. The system status bar at the bottom shows "30°C Haze" and the date/time "17/09/2023 5:21 PM".  
  
The second part of the screenshot shows the same browser window after a code submission. The code editor contains Java code to check if a number is Armstrong. The code uses a scanner to read two integers, n1 and n2, and then iterates through all numbers between them to check if they are Armstrong numbers. The output shows the Armstrong numbers 400 and 1000. The status bar now shows "400 1000" and the date/time "17/09/2023 5:22 PM".

```
1 import java.util.Scanner;
2 public class Main {
3 public static boolean check(int n) {
4 int l = (int) (Math.log10(n)) + 1;
5 int c = n;
6 int a = 0;
7 while (n > 0) {
8 int rem = n % 10;
9 n /= 10;
10 a = a + (int) (Math.pow(rem, l));
11 }
12 boolean ans = a == c;
13 return ans;
14 }
15 public static void main(String[] args) {
16 Scanner sc = new Scanner(System.in);
17 int n1 = sc.nextInt();
18 int n2 = sc.nextInt();
19 for (int i = n1; i <= n2; i++) {
20 if (check(i)) {
21 System.out.println(i);
22 }
23 }
24 }
}
```

hack.codingblocks.com/app/problems/4475/853/problem

Dashboard Practice Get Hired IDE

Odd and Even back in Delhi Easy 86 Submissions 100 Status: Accepted 100/100 Points

Problem Submissions Leaderboard Discuss About the Authors

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

Output Format

N lines each denoting "Yes" or "No" depending upon whether that car will be allowed on Sunday or Not !

Sample Input

```
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
```

Provide Custom Input Compile and Test Submit Code

```
2
12345
12345
```

The screenshot shows a web browser with two tabs open. The top tab displays a Java code editor with the following code:

```
21
22
23
24
25
26
27
28 } }
```

Below the code editor are buttons for "Provide Custom Input", "Compile and Test", and "Submit Code". A sample input "2\n12345\n1234" is shown in the input field. The bottom tab shows the problem details for "Is Armstrong Number":

**Is Armstrong Number** Medium 107 Submissions 100 Max Points

Status: Accepted 100/100 Points

**Problem**

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  $1^4 + 6^4 + 3^4 + 4^4 = 1634$

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

**Input Format**

Single line input containing an integer

**Constraints**

$0 < N < 1000000000$

**Rate this problem?**

★★★★★

Help us improve.

Submit Feedback

**About the Authors**

Hi, lakshya.mittal\_cs22

Code Editor

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

Provide Custom Input

Compile and Test

Submit Code

Java 8

30°C Haze

Search

ENG IN

17/09/2023