JAVA_COD_Control and Looping Statements_Practice Exercise

Submit Test 61:30

CODING 8

Q - 7 Report Error

Single File Programming Question **Marks : 2 Negative Marks : 0**

Write a program to check whether the given year is a leap year or not.

Note: Use nested if else statement

Input format

The input consists of a year.

Output format

The output displays input followed by Leap year or Not leap year based on the condition.

Sample testcases

Input 1	Output 1
1900	1900 Not leap year

Input 2	Output 2
1880	1880 Leap year

Code Size : 1024 kb

Note :

The program will not be evaluated if "Submit Code" is not done atleast once

Extra spaces and new line characters in the program output will also result in the testc... failing

```java
import java.util.*;
class MOMMO{
    public static void main(String[] args){
        Scanner sc=new Scanner(System.in);
        int year=sc.nextInt();
        boolean leap=false;
        if(year%4==0){
            if(year%100==0){
                if(year%400==0)
                leap=true;
                else
                leap=false;
            }
            else
            leap=true;

        }
        else{
        leap=false;
        }
        if(leap)
        System.out.print(year+" Leap year");
        else
        System.out.print(year+" Not leap year");
    }
}
```

Provide Custom Input

Clear Compile & Run Submit Code

Result

8/8 Testcases Passed

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JAVA_COD_Control and Looping Statements_Practice Exercise

Submit Test 41:47

CODING 8

Q - 6 Report Error

Single File Programming Question **Marks : 2 Negative Marks : 0**

Hanging Bridge

At the annual "KrackerJack Karnival", there was the newest attraction ever in the City, the "Hanging Bridge". Visitors will be able to walk 200ft on the bridge, hanging around 50ft above the ground, and enjoy a wide-angle view of the breathtaking greenery.

The Hanging Bridge was inaugurated successfully in coordination with the Event Manager Rahul. There is a limit on the maximum number of people on the bridge and Rahul has to now ensure the count of people on the bridge currently should not exceed the limit. He then approximately estimated that C adults and D kids who came to the show were on the hanging bridge. He also noticed that there are L legs of the people touching the bridge.

Rahul knows that kids love to ride on the adults and they might ride on the adults, and their legs won't touch the ground hence he would miss counting their legs. Also, Rahul knew that the adults would be strong enough to ride at max two kids on their backs.

Rahul is now wondering whether he counted the legs properly or not. Specifically, he is wondering if is there some possibility of his counting being correct. Please help Rahul in finding it.

Input format

The only line of input contains three space-separated integers C, D, and L denoting number of the adults, number of the kids, and the number of legs people counted by Rahul, respectively.

Output format

```java
// You are using Java
import java.util.*;
class Mommo{
    public static void main(String[] args){
        Scanner sc=new Scanner(System.in);
        int a=sc.nextInt();
        int b=sc.nextInt();
        int c=sc.nextInt();
        if((a+b)*2==c)
        System.out.print("Yes");
        else
        System.out.print("No");
        }

}
```

Provide Custom Input

Clear Compile & Run Submit Code

Result

7/7 Testcases Passed

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JAVA_COD_Control and Looping Statements_Practice Exercise

Submit Test 31:31

CODING 8

Q - 1 Report Error

Single File Programming Question **Marks : 2 Negative Marks : 0**

Target Practice

Drona normally trains his disciples using a board that consists of concentric circles. When the student correctly hits the center of the concentric circles, his score is 100. The score gets reduced depending on where the students hit on the board. When the student hits outside the board, his score is 0. Drona will not allow a student to have his food unless he scores 100. Arjuna will always hit the target on his first attempt and he will leave early. Others may take more turns to reach a score of 100. Can you write a program to determine the number of turns a disciple takes to reach the target score of 'n'?

Input format

The input consists of a list of positive integers.
The first integer corresponds to the target score 'n'.
Assume that all the other integers input are less than or equal to the target score

Output format

The output consists of a single line representing a number of turns.

Refer to the sample outputs for the formatting specifications.

Sample testcases

Input 1	Output 1
100 4	The number of turns is 3

```java
// You are using Java
import java.util.*;
class MOMMO{
    public static void main(String[] args){
        Scanner input=new Scanner(System.in);
        int target=input.nextInt();
        int count=0;
        int sum=0;
        while(sum<target){
            int input1=input.nextInt();
            if(input1<=target){
                sum=sum+input1;
                count++;
            }
            else{
                break;
            }
        }
        System.out.print("The number of turns is "+count);
    }
}
```

Provide Custom Input

Clear Compile & Run Submit Code

Result

5/5 Testcases Passed

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JAVA_COD_Control and Looping Statements_Practice Exercise

Submit Test 25:24

CODING 8

Q - 4 Report Error

Single File Programming Question **Marks : 2 Negative Marks : 0**

Problem Statement

Write a program to generate the first 'n' terms of the following series 6, 11, 21, 36, 56,...

Input format

The input is an integer 'n' which denotes the number of terms to be printed in the series.

Output format

The output consists of the series separated by space.

Refer to the sample outputs for the formatting specifications.

Sample testcases

Input 1	Output 1
5	6 11 21 36 56
Input 2	**Output 2**
6	6 11 21 36 56 81

Note :

The program will not be evaluated if "Submit Code" is not done atleast once

Extra spaces and new line characters in the program output will also result in the testcase failing

```java
// You are using Java
import java.util.*;
class MOMMO{
    public static void main(String[] args){
        Scanner input=new Scanner(System.in);
        int n=input.nextInt();
        int temp=0;
        int a=6;
        int sum=0;
        System.out.print(a+" ");
        for(int i=1;i<n;i++){
            sum=a+(5*i);
            System.out.print(sum+" ");
            a=sum;
        }
    }
}
```

Provide Custom Input

Clear Compile & Run Submit Code

Result

5/5 Testcases Passed

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JAVA_COD_Control and Looping Statements_Practice Exercise

Submit Test 20:52

CODING 8

Q - 5 Report Error

Single File Programming Question **Marks : 2 Negative Marks : 0**

Special Number

Write a program to find all special numbers between the given range m and n(both inclusive). Assume that m and n are 2-digit numbers. A 2-digit number is said to be a special number if the sum of its digits and the products of its digits is equal to the number itself.

For example, 19 is a special number.
The digits in 19 are 1 and 9. The sum of the digits is 10 and the product of the digits is 9.
10+9 = 19.

Input format

The input consists of two integers m and n denoting the range.

Output format

The output prints the special numbers as shown in the sample output.

Sample testcases

Input 1	Output 1
11 30	19 29

Note :

Fill your code here Java (11)

```
// You are using Java
import java.util.*;
class MOMMO{
    public static void main(String[] args){
        Scanner input=new Scanner(System.in);
        int a=input.nextInt();
        int b=input.nextInt();
        for(int i=a;i<=b;i++){
            int x=i/10;
            int y=i%10;
            int sum=x+y;
            int product =x*y;
            if((sum+product)==i)
            System.out.println(i);
        }
    }
}
```

Provide Custom Input

Clear Compile & Run Submit Code

Result

5/5 Testcases Passed

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JAVA_COD_Control and Looping Statements_Practice Exercise

Submit Test 13:06

CODING 8

Q - 8 Report Error

Single File Programming Question **Marks : 2 Negative Marks : 0**

Write a program to print Pascal's Triangle.

Example - Input: 6

Output:

```
    1
   1 1
  1 2 1
 1 3 3 1
1 4 6 4 1
1 5 10 10 5 1
```

Input format

The input consists of a number.

Output format

The output displays the required pattern.

Sample testcases

Input 1	Output 1
6	1 1 1 1 2 1

Fill your code here Java (11)

```
// You are using Java
import java.util.*;
class MOMMO{
    public static void main(String[] args){
        Scanner input=new Scanner(System.in);
        int c=1;
        int a=input.nextInt();
        for(int i=0;i<a;i++){
            for(int b=1;b<=a-i;b++){
                System.out.print(" ");
            }
        for(int j=0;j<=i;j++){
            if(j==0||i==0){
                c=1;
            }
            else{
                c=c*(i-j+1)/j;
            }
                System.out.print(" "+c);

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

Provide Custom Input

Clear Compile & Run Submit Code

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JAVA_COD_Control and Looping Statements_Practice Exercise

Submit Test 74:44

CODING 8

Q - 3 Report Error

Single File Programming Question Marks : 2 Negative Marks : 0

Write a Java program to find the sum of digits till the sum is single digits.
Example:-
123 => (1+2+3) => 6

Input format

The input consists of an integer N.

Output format

The output displays the sum of the integer.

Code constraints

Add the digits till the sum is a single digit.
2 <= N <= 1000000

Sample testcases

Input 1	Output 1
1235	2

Code Size : 1024 kb

Note :

The program will not be evaluated if "Submit Code" is not done atleast once

Extra spaces and new line characters in the program output will also result in the testcase failing

```java
// You are using Java
import java.util.*;
class MOMMO{
    static int digitsum(int n){
        int sum=0;
        while(n>0||sum>9){
            if(n==0){
                n=sum;
                sum=0;
            }
            sum=sum+n%10;
            n=n/10;
        }
        return sum;
    }
    public static void main(String[] args){
        Scanner sc=new Scanner(System.in);
        int a=sc.nextInt();
        System.out.print(digitsum(a));
    }
}
```

Provide Custom Input

Clear Compile & Run Submit Code

Result

5/5 Testcases Passed

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JAVA_COD_Control and Looping Statements_Practice Exercise

Submit Test 70:43

CODING 8

Q - 2 Report Error

Single File Programming Question Marks : 2 Negative Marks : 0

Ticket types

The Magic Castle, the home of the Academy of Magical Arts in California has organized the great 'WonderWorks Magic Show'. Renowned magicians were invited to mystify and thrill the crowd with their world's spectacular magic tricks. The Ticket booking for the show started 2 days prior and there were different types of tickets offered with the different fares. The show organizers wanted to place a scanning machine at the entrance of the venue for scrutiny. The machine will take the input of a character denoting the various ticket types and displays the equivalent ticket type of the given character.
There are 5 types of tickets, each of which is denoted by a character (both upper case and lower case). Please find the equivalent strings for the characters.
E or e - Early Bird Ticket
D or d - Discount Ticket
V or v - VIP Ticket
S or s - Standard Ticket
C or c - Children Ticket
Write a piece of code for the scanning machine that will take the input of a character and print the equivalent string as given.

Input format

The input consists of the character that denotes one of the ticket types.

Output format

The output should display the equivalent ticket type of the character.

```java
// You are using Java
import java.util.*;
class MOMMO{
    public static void main(String[] args){
        Scanner sc=new Scanner(System.in);
        char c=sc.next().charAt(0);
        switch(c){
            case 'E':
                System.out.print("Early Bird Ticket");
                break;
            case 'e':
                System.out.print("Early Bird Ticket");
                break;
            case 'D':
                System.out.print("Discount Ticket");
                break;
            case 'd':
                System.out.print("Discount Ticket");
                break;
            case 'V':
                System.out.print("VIP Ticket");
                break;
            case 'v':
                System.out.print("VIP Ticket");
                break;
```

Provide Custom Input

Clear Compile & Run Submit Code

Result

10/10 Testcases Passed

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JAVA_COD_Control and Looping Statements_Practice Exercise

Submit Test 70:47

CODING 8

Q - 2

Report Error

Single File Programming Question **Marks : 2 Negative Marks : 0**

Ticket types

The Magic Castle, the home of the Academy of Magical Arts in California has organized the great 'WonderWorks Magic Show'. Renowned magicians were invited to mystify and thrill the crowd with their world's spectacular magic tricks. The Ticket booking for the show started 2 days prior and there were different types of tickets offered with the different fares. The show organizers wanted to place a scanning machine at the entrance of the venue for scrutiny. The machine will take the input of a character denoting the various ticket types and displays the equivalent ticket type of the given character.

There are 5 types of tickets, each of which is denoted by a character (both upper case and lower case). Please find the equivalent strings for the characters.

E or e - Early Bird Ticket

D or d - Discount Ticket

V or v - VIP Ticket

S or s - Standard Ticket

C or c - Children Ticket

Write a piece of code for the scanning machine that will take the input of a character and print the equivalent string as given.

Input format

The input consists of the character that denotes one of the ticket types.

Output format

The output should display the equivalent ticket type of the character.

Fill your code here

```
                System.out.print("Discount Ticket");
                break;
            case 'V':
                System.out.print("VIP Ticket");
                break;
            case 'v':
                System.out.print("VIP Ticket");
                break;
            case 'S':
                System.out.print("Standard Ticket");
                break;
            case 's':
                System.out.print("Standard Ticket");
                break;
            case 'C':
                System.out.print("Children Ticket");
                break;
            case 'c':
                System.out.print("Children Ticket");
                break;
            default:
            System.out.print("Invalid");
            break;
        }
    }
}
```

Provide Custom Input

Clear Compile & Run Submit Code

Result

10/10 Testcases Passed

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