

Result & Analysis

Attempt 1

of 01



Student

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Test

2028_REC_OOPS using Java_Week 2_Mcq

Course

2024_28_III_OOPS Using Java Lab

IP Address 2409...

Tab Switches --

OS Used Windows

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Test Duration 00:...

Test Start Time A...

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Summary

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1 MCQ (15)



Question No: 1

Multi Choice Type Question

What will be the output of the following code?

```
1 class LoopTest {  
2     public static void main(String[] args) {  
3         int i = 1;  
4         do {  
5             System.out.print(i + " ");  
6             i *= 2;  
7         } while (i <= 8);  
8     }  
9 }
```

 1 2 4 8 1 2 4 8 10 1 2

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1 Coding (1)

Question No: 1**Single File Programming Question****Problem Statement**

Arun is working on a project to automate the process of determining whether a student has passed or failed based on their subject marks.

He aims to create a simple program that takes positive integers as marks for five subjects from the user. If the average of the marks is greater than or equal to 50, the student has passed the exam. Otherwise, the student has failed.

Help Arun to implement the project.

Input format :

The input consists of five space-separated integers, representing the marks in five subjects.

Output format :

The first line of output prints "Average score: " followed by an integer representing the average score.

The second line prints one of the following:

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1 Coding (1)

Question No: 1**Single File Programming Question****Problem Statement**

Samantha is a diligent math student who is exploring the world of programming. She is learning Java and has recently studied conditional statements. One day, her teacher gives her an interesting problem to solve, which takes a number as input and checks whether it is a multiple of 5 or 7.

Help her complete the task.

Input format :

The input consists of a single integer **N**, representing the number to be checked.

Output format :

If the number is a multiple of 5 but not 7, the output prints "N is a multiple of 5".

If the number is a multiple of 7, the output prints "N is a multiple of 7".

Otherwise the output prints "N is neither multiple of 5 nor 7" where N is an entered integer.

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1 Coding (1)

Question No: 1**Single File Programming Question****Problem Statement**

John is a fitness trainer, and he wants to use the BMI calculator to assess the body mass index of his clients. He has a list of clients based on their height and weight.

John plans to write a program to quickly determine the BMI and provide a classification for each client.

1. If BMI is less than 18.5, the program will classify it as "Underweight"
2. If BMI is between 18.6 and 24.9, the program will classify it as "Normal Weight"
3. If BMI is between 25.0 and 29.9, the program will classify it as "Overweight"
4. If BMI is 30.0 or higher, the program will classify it as "Obese"

Note: Formula to calculate BMI = weight/(height*height)

Input format :

The first line of input consists of a double value, representing the height of the person in meters.

The second line consists of a double value, representing the weight of the person in kilograms.

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1 Coding (1)

Question No: 1**Single File Programming Question****Problem Statement**

Amit wants to evaluate the depreciation of his car over time to understand its current value and categorize it based on that value.

Write a program that helps him determine the current value of his car after a certain number of years of depreciation and classify it into one of three categories:

1. High: If the current value is greater than 10,000.
2. Medium: If the current value is between 5,000 and 10,000, both inclusive.
3. Low: If the current value is less than 5,000.

The depreciation rate of the car is 15% per year. The program should calculate the current value of the car after applying this depreciation over the given number of years and print the current value along with the category.

Input format :

The first line of input consists of an integer, representing the initial cost of the car.

The second line consists of an integer, representing the number of years the car has been depreciating.

Output format :

The first line of output prints a double value, representing the current value of the car, rounded off to two decimal places "Current Value: <value>".

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1 Coding (1)

Question No: 1**Single File Programming Question****Problem Statement**

Ted, the computer science enthusiast, has accepted the challenge of writing a program that checks if the number of digits in an integer matches the sum of its digits.

Guide Ted in designing and writing the code to solve this problem using a 'do-while' loop.

Input format :

The input consists of an integer **N**, representing the number to be checked.

Output format :

If the sum is equal to the number of digits, print "**The number of digits in N matches the sum of its digits.**"

Else, print "**The number of digits in N does not match the sum of its digits.**"

Refer to the sample output for formatting specifications.

Code constraints :

$1 \leq N \leq 10^6$

Sample test cases :**Input 1:**

20

Output 1:

The number of digits in 20 matches the sum of its digits.

Input 2:**Output 2:**

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1 Coding (1)

Question No: 1**Single File Programming Question****Problem Statement**

Maya, a student in an arts and crafts class, wants to create a pattern using stars (*) in a specific format. She plans to use a program to help her construct the pattern.

Write a program that takes an integer as input and constructs the following pattern using nested for loops.

Input: 5**Output:**

```
*
```

```
* *
```

```
* * *
```

```
* * * *
```

```
* * * *
```

```
* * *
```

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1 Coding (1)

Question No: 1**Single File Programming Question****Problem Statement**

You are taking part in a coding challenge where your task is to design a program that conjures a mesmerizing numerical pyramid pattern. The enchanting pattern is fashioned using a for loop and is customized based on user input.

Participants are prompted to unveil the pyramid's magic by specifying its height – essentially dictating the number of rows in this spellbinding creation.

Write a program that employs to weave this captivating numerical pyramid as shown below.

Example**Input:**

4

Output:

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1 Coding (1)

Question No: 1**Single File Programming Question****Problem Statement**

A bank generates secure codes using 3-digit numbers where each digit is unique, and the code must be divisible by 3. You are tasked with generating the first N such codes based on user input, ensuring the digits are unique and the number is divisible by 3.

Note: Use nested for loops to solve.

Input format :

The first line contains an integer N representing the number of valid codes to generate.

Output format :

The output prints N lines, each line contains a valid 3-digit code.

Refer to the sample output for formatting specifications.

Code constraints :

<https://rec215.examly.io/result?testId=U2FsdGVkX19s%2B7JMHD5iNfu7RW1uU7SZhCEqefsREUNHc8xe%2BvkmNkILOVmVZmn>

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1 Coding (4)

Question No: 1**Single File Programming Question****Problem Statement**

Rohit is tasked with designing a program to analyze the digits of a given integer.

Write a program to help Rohit that takes an integer as input and identifies the minimum odd digit and the maximum even digit present in the number. If no odd or even digits are present, display appropriate messages.

Implement the solution using a 'while' loop to iterate through the digits of the given number.

Input format :

The input consists of an integer **n**.

Output format :

The first line of output prints the message "Minimum odd digit: " followed by an integer representing the smallest odd digit found in the input number.

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1 Coding (4)

Question No: 1**Single File Programming Question****Problem Statement**

Raj is solving a physics problem involving projectile motion, where he needs to calculate the time a ball hits the ground using a quadratic equation of the form $ax^2 + bx + c = 0$. Depending on the coefficients, the ball may hit the ground once, twice, or not at all in real time.

Help Raj find all real roots of the equation, if any.

Note: discriminant = $b^2 - 4ac$

Input format :

The input consists of three space-separated doubles a, b, and c, representing the coefficients of the quadratic equation.

Output format :

If there are two real roots print:

<https://rec215.examly.io/result?testId=U2FsdGVkX19QiKhCc7Z3aDjNJcmOONU9%2F3TgmKzJ6YeLZJgAGNAhgpsy07Ron633E>