

## Result &amp; Analysis

Attempt 1

of 01



TEST

ZUZO\_REC\_OOPS Using Java\_week 1\_MCQ

Course

2024\_28\_III\_OOPS Using Java Lab

⊕ IP Address 115.24...

Tab Switches --

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▷ Resume Count 3

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 import java.util.*;
2
3 class TernaryOperatorExample {
4     public static void main(String[] args) {
5         int a = 5, b = 10;
6         int result = (a > b) ? a : b;
7         System.out.println(result);
8     }
9 }
```

 Undefined behavior 5 Compilation error 10

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1 Coding (1)



Gloria is responsible for monitoring the performance of two machines in a factory. She needs to determine which of the two machines is operating closest to the optimal temperature of 100 degrees Celsius using the relational operator.

Assist Gloria in displaying the machine's temperature, which is closer to 100, and the difference from 100.

**Input format :**

The first line of input consists of an integer **N**, representing the temperature of the first machine.

The second line consists of an integer **M**, representing the temperature of the second machine.

**Output format :**

The output prints "The integer closer to 100 is X with a difference of Y" where X is the temperature of the closer machine and Y is the difference from 100.

Refer to the sample output for formatting specifications.

**Code constraints :**

In this scenario, the test cases fall under the following constraints:

$$1 \leq N, M \leq 120$$

**Sample test cases :****Input 1:**

90

80

**Output 1:**

The integer closer to 100 is 90 with a difference

**Input 2:**

110

92

**Output 2:**

The integer closer to 100 is 92 with a difference

Fill your code here

Java (11) ▾

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1 Coding (1)

**Question No: 1****Single File Programming Question****PROBLEM STATEMENT:**

Dave got two students who wants help with their doubt. Each handouts an integer and wants to find if one Integer Positive While the Other is Not Divisible by 3. Write a program to achieve this and conclude for them.

**Input format :**

The first line of input represents the first integer.

The second line of input represents the second integer.

**Output format :**

The output should display as "**One of the integers is positive while the other is not divisible by 3.**" or "**Neither of the integers meets the condition.**"

Refer to the sample output for the formatting specifications.

**Sample test cases :****Input 1:**

```
4  
3
```

**Output 1:**

One of the integers is positive while the other

**Input 2:**

```
12  
27
```

**Output 2 :**

Neither of the integers meets the condition.

Fill your code here

Java (11) ▾

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1 Coding (1)

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

Manoj, a developer at MoneyMatters Inc., is working on improving the company's financial system. He needs to create a program that takes an integer input, converts it into a double, and displays both the original integer and the converted double value.

**Input format :**

The input consists of a single integer representing a monetary amount.

**Output format :**

The first line of the output displays the "**Original Integer:**", followed by an integer representation of the input value.

The second line displays the "**Converted Double:**", followed by a double value representing the input as a decimal value.

**Refer to the sample output for the formatting specifications.**

**Code constraints :**

The given test cases fall under the following constraints:

$1 \leq \text{number} \leq 99999$

**Sample test cases :**

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1 Coding (1)

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

Vishal and Arun are discussing the properties of numbers. Vishal gives Arun two integers. He asks Arun to check if the sum of these two numbers is a multiple of their product.

Can you assist Arun and determine whether the sum is a multiple of the product?

**Input format :**

The input consists of two space-separated integers.

**Output format :**

The output prints:

"Sum is Multiple of Product" if the sum of the two numbers is divisible by their product.

"Sum is Not Multiple of Product" otherwise.

**Refer to the sample output for formatting specifications.**

**Code constraints :**

The given test cases fall under the following constraints:

1 ≤ input integers ≤ 100

**Sample test cases :****Input 1:**

<https://rec215.examly.io/result?testId=U2FsdGVkX1%2F4yWm1F%2BmaFukA1TEffLxZx8FhEDJtoXa6YrvTbzn10f72tzO%2BTmdg>

**Output 1:**

## Result & Analysis

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1 Coding (1)

### Question No: 1

#### Single File Programming Question

##### Problem Statement:

Emily has a beautiful circular garden in her backyard. She's interested in calculating two important measurements for her garden: the circumference and the area. To do this, she needs a program that can take the radius of her circular garden as input and provide the calculated circumference and area as output. The formulas she should use are as follows:

To calculate the circumference (C) of a circle, you can use the formula:

$$C = 2 * \pi * r$$

$$A = \pi * r^2$$

Where:

C represents the circumference.

A represents the area.

$\pi$  (pi) is approximately 3.14159.

r is the radius of the circle.

Emily is not a programmer, and she needs your help to create a program that will make these calculations for her garden.

##### **Input format :**

The first line of input contains a single double-point number radius, representing the radius of the circle.

##### **Output format :**

The output should consist of two lines:

The first line should print the circumference of the circle rounded to 2 decimal places, followed by the unit "meters".

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1 Coding (1)

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

Joey is learning about bitwise operations and is working on a project that involves extracting specific bits from integers. He needs to write a program that takes an integer and the number of bits N as input and outputs the value of the lowest N bits of the integer.

Help Joey in his project to understand and visualize how bitwise operations work in practical scenarios.

**Input format :**

The first line of input consists of an integer X, representing the given integer.

The second line consists of an integer N, representing the number of bits to extract.

**Output format :**

The output displays "Result: " followed by an integer representing the value of the lowest N bits of the given integer.

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1 Coding (1)

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

Miles is working on a program that involves analyzing two integers. He wants to check if either one of the integers is both:

1. Less than or equal to zero, and
2. Odd.

Can you help him create a program that identifies whether either of the integers meets these conditions?

**Input format :**

The input consists of two integers on separate lines, denoted as '**input1**' and '**input2**'.

**Output format :**

A single line with a **boolean** result (either '**true**' or '**false**') indicating whether either '**input1**' or '**input2**' is **both less than or equal to zero and odd**.

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1 Coding (1)

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

In the Kingdom of Finance, the royal treasury is managed by the treasurer, Sir Cedric. Sir Cedric tracks the daily expenses of the kingdom using an expense report that lists three major categories: food, clothing, and utilities. However, the King wants to know if the average daily expense is greater than at least two of these categories to ensure the kingdom is spending wisely.

Your task is to help Sir Cedric determine if the average daily expense is greater than two of the categories. Specifically, you need to calculate the average of the three expenses and check if it is greater than any two categories.

Note: Use the ternary operator

**Input format :**

Three integers a, b, and c represent the daily expenses for food, clothing, and utilities. Each integer is provided on a single line.

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1 Coding (1)

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

Phill is a quality control manager at a manufacturing plant. He needs to verify if a sensor reading at a midpoint station (S2) falls exactly halfway between the readings of the previous station (S1) and the next station (S3). Help him by developing a program that checks if the second sensor reading is the average (midpoint) of the first and third sensor readings.

Use the relational operator to solve the program.

**Input format :**

The first line of input consists of an integer **S1**, representing the sensor reading of the first station.

The second line consists of an integer **S2**, representing the sensor reading of the midpoint station.

The third line consists of an integer **S3**, representing the sensor reading of the next station.

**Output format :**

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1 Coding (1)

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

Aishu is supervising a construction project that needs to be completed with the help of three workers: A, B, and C.

She knows how many days each of them would take to complete the entire project individually:

- A can complete it in x days,
- B in y days,
- C in z days.

Initially, all three workers (A, B, and C) work together for d1 days.

After that, C leaves, and only A and B continue for another d2 days.

Then B also leaves, and A works alone to finish the remaining work.

Your tasks is to help aishu to implement this functionality using **the class WorkDistribution and Method calculateWork(int x, int y, int z, int d1, int d2)**

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Test

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1 Coding (4)

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

Mickey and Miney are walking through a magical forest. The forest is full of enchanted stones, each with a unique number. There is a legend that says the magic power of the stones can be revealed by using a special operation. To determine the magic power of a given stone, you need to perform a bitwise AND operation with the number 15.

Each stone's number is represented by an integer, and Mickey needs to find the magic power of each stone by applying this operation.

Your task is to help Mickey compute the result of the bitwise AND operation of the given stone number with 15, and print the result.

**Input format :**

The input consists of a single integer.

**Output format :**

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1 Coding (4)

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

Tom is tasked with writing a program that determines whether a given integer is the square of another integer. A perfect square is a number that can be expressed as the square of an integer. The program should take an integer as input and determine if it is a perfect square or not.

The task is to implement the logic to check if the provided integer is the square of an integer and return the result.

**Input format :**

The first line of the input contains an integer, "input", where |input| represents the absolute value of the integer.

**Output format :**

The output should display a boolean value, "result," which should be set to true if the input is a perfect square