

# Rajalakshmi Engineering College

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## 2024\_28\_III\_OOPS Using Java Lab

### 2028\_REC\_OOPS using Java\_Week 2\_MCQ

Attempt : 1  
Total Mark : 15  
Marks Obtained : 15

#### Section 1 : MCQ

1. What will be the output of the following code?

```
class Test {  
    public static void main(String[] args) {  
        int num = 15;  
        if (num > 10)  
            if (num % 3 == 0)  
                System.out.print("Divisible");  
            else  
                System.out.print("Not Divisible");  
        }  
    }  
}
```

**Answer**

Divisible

**Status :** Correct

**Marks :** 1/1

2. What will be the output of the following code?

```
public class Main {  
    public static void main(String[] args) {  
        int i = 10;  
        do {  
            System.out.print(i + " ");  
            i -= 3;  
        } while(i > 0);  
    }  
}
```

**Answer**

10 7 4 1

**Status :** Correct

**Marks :** 1/1

3. What will be the output of the following Java code snippet?

```
public class Main {  
    public static void main(String[] args) {  
        int day = 4;  
        String result = "";  
        switch(day) {  
            case 1:  
                result = "Monday";  
                break;  
            case 2:  
                result = "Tuesday";  
                break;  
            case 3:  
                result = "Wednesday";  
                break;  
            default:  
                result = "Other Day";  
        }  
    }  
}
```

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

**Answer**

Other Day

**Status :** Correct

**Marks :** 1/1

4. What will be the output of the following code?

```
class ConditionTest {
    public static void main(String[] args) {
        int a = 7;
        if (a == 7)
            System.out.print("Match");
        else
            System.out.print("No Match");
    }
}
```

**Answer**

Match

**Status :** Correct

**Marks :** 1/1

5. What will be the output of the following code?

```
class LoopTest {
    public static void main(String[] args) {
        int i = 1;
        while (i > 0) {
            System.out.print(i + " ");
            i++;
            if (i == 5) break;
        }
    }
}
```

**Answer**

1 2 3 4

**Status :** Correct

**Marks :** 1/1

6. What will be the output of the following code?

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

**Answer**

1 2 4 8

**Status :** Correct

**Marks :** 1/1

7. What will be the output of the following code?

```
class Main {  
    public static void main(String[] args) {  
        for (int i = 5; i > 0; i--) {  
            System.out.print(i + " ");  
        }  
    }  
}
```

**Answer**

5 4 3 2 1

**Status :** Correct

**Marks :** 1/1

8. What will be the output of the following code?

```
class ConditionTest {  
    public static void main(String[] args) {  
        int x = 10;  
        if (x > 5)  
            System.out.print("High");  
    }  
}
```

**Answer**

High

**Status :** Correct

**Marks :** 1/1

9. What will be the output of the following code?

```
public class Main {  
    public static void main(String[] args) {  
        int sum = 0;  
        for(int i = 1; i <= 5; i++) {  
            sum += i;  
        }  
        System.out.println(sum);  
    }  
}
```

**Answer**

15

**Status :** Correct

**Marks :** 1/1

10. What will be the output of the following Java code snippet?

```
public class Main {  
    public static void main(String[] args) {  
        int score = 75;  
        if(score >= 90) {  
            System.out.println("Grade: A");  
        } else if(score >= 80) {
```

```
        System.out.println("Grade: B");
    } else if(score >= 70) {
        System.out.println("Grade: C");
    } else {
        System.out.println("Grade: D");
    }
}
}
```

**Answer**

Grade: C

**Status : Correct**

**Marks : 1/1**

11. What will be the output of the following code?

```
class Test {
    public static void main(String[] args) {
        int a = 4, b = 5;
        if ((a + b) % 2 == 0)
            System.out.print("Even");
        else
            System.out.print("Odd");
    }
}
```

**Answer**

Odd

**Status : Correct**

**Marks : 1/1**

12. What will be the output of the following code?

```
class Loop {
    public static void main(String[] args) {
        for (int i = 1; i <= 3; i++) {
            for (int j = 1; j <= 2; j++) {
                System.out.print(i + "" + j + " ");
            }
        }
    }
}
```

**Answer**

11 12 21 22 31 32

**Status :** Correct

**Marks :** 1/1

13. What will be the output of the following code?

```
public class Main {  
    public static void main(String[] args) {  
        int i = 1;  
        while(i < 10) {  
            i += 2;  
        }  
        System.out.println(i);  
    }  
}
```

**Answer**

11

**Status :** Correct

**Marks :** 1/1

14. What will be the output of the following code?

```
public class Main {  
    public static void main(String[] args) {  
        for(int i = 1; i <= 20; i = i * 2) {  
            System.out.print(i + " ");  
        }  
    }  
}
```

**Answer**

1 2 4 8 16

**Status :** Correct

**Marks :** 1/1

15. What will be the output of the following code?

```
class Test {  
    public static void main(String[] args) {  
        int x = 5, y = 2;  
        if (x + y == 10)  
            System.out.print("Ten");  
        else if (x - y == 3)  
            System.out.print("Three");  
        else  
            System.out.print("None");  
    }  
}
```

**Answer**

Three

**Status :** Correct

**Marks :** 1/1



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## 2024\_28\_III\_OOPS Using Java Lab

### 2028\_REC\_OOPS using Java\_Week 2\_Q1

Attempt : 1  
Total Mark : 10  
Marks Obtained : 10

#### Section 1 : Coding

##### 1. 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:

1. If the condition is satisfied, print "The student has passed".
2. Otherwise, the output prints "The student has failed".

Refer to the sample output for formatting specifications.

### **Sample Test Case**

Input: 50 60 70 80 90

Output: Average score: 70

The student has passed

### **Answer**

```
import java.util.Scanner;
class Main{
    public static void main(String[]args){
        Scanner sc=new Scanner(System.in);
        int a=sc.nextInt();
        int b=sc.nextInt();
        int c=sc.nextInt();
        int d=sc.nextInt();
        int e=sc.nextInt();
        int avg=(a+b+c+d+e)/5;
        System.out.println("Average score: "+avg);
        if(avg>=50)
        {
            System.out.println("The student has passed");
        }
        else
        {
            System.out.println("The student has failed");
        }
    }
}
```

}

**Status :** Correct

**Marks :** 10/10

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## 2024\_28\_III\_OOPS Using Java Lab

### 2028\_REC\_OOPS using Java\_Week 2\_Q2

Attempt : 1  
Total Mark : 10  
Marks Obtained : 10

#### Section 1 : Coding

##### 1. 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.

Refer to the sample output for formatting specifications.

### **Sample Test Case**

Input: 10

Output: 10 is a multiple of 5

### **Answer**

```
import java.util.*;
class Main{
    public static void main(String[] args){
        Scanner sc=new Scanner(System.in);
        int N=sc.nextInt();
        if(N%5==0)
        {
            System.out.printf("%d is a multiple of 5",N);
        }
        else if(N%7==0)
        {
            System.out.printf("%d is a multiple of 7",N);
        }
        else
        {
            System.out.printf("%d is neither multiple of 5 nor 7",N);
        }
    }
}
```

**Status :** Correct

**Marks :** 10/10

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## 2024\_28\_III\_OOPS Using Java Lab

### 2028\_REC\_OOPS using Java\_Week 2\_Q3

Attempt : 1  
Total Mark : 10  
Marks Obtained : 10

#### Section 1 : Coding

##### 1. 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.

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

Note: Formula to calculate BMI =  $\text{weight}/(\text{height} \times \text{height})$

***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.

### ***Output Format***

The first line of output prints "BMI: " followed by a double (rounded to two decimal places) representing the calculated BMI.

The second line prints "Classification: " followed by a string indicating the BMI category (Underweight, Normal Weight, Overweight, or Obese).

Refer to the sample output for formatting specifications.

### ***Sample Test Case***

Input: 1.2

45.2

Output: BMI: 31.39

Classification: Obese

### ***Answer***

```
import java.util.*;
class Main{
    public static void main(String[] args){
        Scanner sc=new Scanner(System.in);
        double a=sc.nextDouble();
        double b=sc.nextDouble();
        double c=b/(a*a);
        System.out.printf("BMI: %.2f\n",c);
        if(c<18.5)
        {
            System.out.println("Classification: Underweight");
        }
        else if(c>=18.6 && c<24.9)
        {
            System.out.println("Classification: Normal Weight");
        }
        else if(c>=25.0 && c<29.9)
```

```
{  
    System.out.println("Classification: Overweight");  
}  
else  
{  
    System.out.println("Classification: Obese");  
}  
}
```

**Status :** Correct

**Marks :** 10/10



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## 2024\_28\_III\_OOPS Using Java Lab

### 2028\_REC\_OOPS using Java\_Week 2\_Q4

Attempt : 1  
Total Mark : 10  
Marks Obtained : 10

#### Section 1 : Coding

##### 1. 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:

High: If the current value is greater than 10,000. Medium: If the current value is between 5,000 and 10,000, both inclusive. 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>".

The second line prints its category "Category: <categories>".

Refer to the sample output for formatting specifications.

### ***Sample Test Case***

Input: 20000  
5

Output: Current Value: 8874.11  
Category: Medium

### ***Answer***

```
import java.util.*;
class Main{
    public static void main(String[]args){
        Scanner sc=new Scanner(System.in);
        int a=sc.nextInt();
        int b=sc.nextInt();
        float c=(100-15)/100f;
        double cur=a*Math.pow(c,b);
        System.out.printf("Current Value: %.2f\n",cur);
        if(cur>10000)
        {
            System.out.println("Category: High");
        }
        else if(cur>=5000 && cur<=10000)
        {
            System.out.println("Category: Medium");
        }
    }
}
```

```
}  
    else if(cur<5000)  
    {  
        System.out.println("Category: Low");  
    }  
}  
}
```

**Status :** Correct

**Marks :** 10/10

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## 2024\_28\_III\_OOPS Using Java Lab

### 2028\_REC\_OOPS using Java\_Week 2\_Q5

Attempt : 1  
Total Mark : 10  
Marks Obtained : 10

#### Section 1 : Coding

##### 1. 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.

### **Sample Test Case**

Input: 20

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

### **Answer**

```
import java.util.*;
class Main{
    public static void main(String[]args){
        Scanner sc=new Scanner(System.in);
        int n=sc.nextInt();
        int a=n;
        int s=0,c=0;
        do{
            int e=a%10;
            s=s+e;
            c=c+1;
            a=a/10;
        }while(a>0);
        if(s==c)
        {
            System.out.printf("The number of digits in %d matches the sum of its
digits.",n);
        }
        else
        {
            System.out.printf("The number of digits in %d does not match the sum of
its digits.",n);
        }
    }
}
```

**Status :** Correct

**Marks :** 10/10

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## 2024\_28\_III\_OOPS Using Java Lab

### 2028\_REC\_OOPS using Java\_Week 2\_Q6

Attempt : 1  
Total Mark : 10  
Marks Obtained : 10

#### Section 1 : Coding

##### 1. 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:

```
*  
* *
```

\* \* \*  
\* \* \* \*  
\* \* \* \* \*  
  
\* \* \* \*  
  
\* \* \*  
  
\* \*  
  
\*

### ***Input Format***

The input consists of a number (integer) representing the number of rows.

### ***Output Format***

The output displays the required pattern.

Refer to the sample output for the formatting specifications.

### ***Sample Test Case***

Input: 5

Output: \*

\* \*  
\* \* \*  
\* \* \* \*  
\* \* \* \* \*  
\* \* \* \*  
\* \* \* \*  
\* \* \*  
\* \*  
\*

### ***Answer***

```
import java.util.*;  
class main{  
    public static void main(String[] args){  
        Scanner sc=new Scanner(System.in);  
        int a=sc.nextInt();
```

```
for(int i=1;i<=a;i++)
{
    for(int j=1;j<=i;j++)
    {
        System.out.print("* ");
    }
    System.out.println();
}
for(int i=a-1;i>=1;i--)
{
    for(int j=1;j<=i;j++)
    {
        System.out.print("* ");
    }
    System.out.println();
}
}
```

**Status :** Correct

**Marks : 10/10**



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## 2024\_28\_III\_OOPS Using Java Lab

### 2028\_REC\_OOPS using Java\_Week 2\_Q7

Attempt : 1  
Total Mark : 10  
Marks Obtained : 10

#### Section 1 : Coding

##### 1. 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:

### ***Input Format***

The input consists of a positive integer n representing the number of rows in the pattern.

### ***Output Format***

The output prints the required pyramid pattern, as shown in the sample output.

Refer to the sample output for the formatting specifications.

### ***Sample Test Case***

Input: 4

Output: 1

123

12345

1234567

### ***Answer***

```
import java.util.*;
class Main{
    public static void main(String[]args){
        Scanner sc=new Scanner(System.in);
        int a=sc.nextInt();
        for(int i=1;i<=a;i++){
            for(int s=1;s<=a-i;s++){
                System.out.print(" ");
            }
            for(int j=1;j<=(2*i-1);j++){
                System.out.print(j);
            }
            System.out.println();
        }
    }
}
```

**Status : Correct**

**Marks : 10/10**

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## 2024\_28\_III\_OOPS Using Java Lab

### 2028\_REC\_OOPS using Java\_Week 2\_Q8

Attempt : 1  
Total Mark : 10  
Marks Obtained : 10

#### Section 1 : Coding

##### 1. 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.

### **Sample Test Case**

Input: 5

Output: 102

105

108

120

123

### **Answer**

```
import java.util.*;
class Main{
    public static void main(String[]args){
        Scanner sc=new Scanner(System.in);
        int a=sc.nextInt();
        int c=0;
        for(int i=1;i<=9;i++){
            for(int j=0;j<=9;j++){
                for(int k=0;k<=9;k++){
                    if(i!=j&&j!=k&&i!=k){
                        int s=i+j+k;
                        if(s%3==0)
                        {
                            System.out.println(""+i+j+k);
                            c++;
                            if(c==a) return;
                        }
                    }
                }
            }
        }
    }
}
```

**Status :** Correct

**Marks :** 10/10

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## 2024\_28\_III\_OOPS Using Java Lab

### REC\_2028\_OOPS using Java\_Week 3\_MCQ

Attempt : 2  
Total Mark : 15  
Marks Obtained : 15

#### Section 1 : MCQ

1. What will be the output of the following code?

```
class Q {  
    public static void main(String[] args) {  
        int[][] a = {  
            {1, 2},  
            {3, 4}  
        };  
        for (int i = 0; i < a.length; i++) {  
            for (int j = 0; j < a[0].length; j++) {  
                System.out.print(a[i][j] + " ");  
            }  
        }  
    }  
}
```

**Answer**

1 2 3 4

**Status :** Correct

**Marks :** 1/1

2. What will be the output of the following code?

```
public class Test {  
    public static void main(String[] args) {  
        int[] x = {4, 8, 12};  
        int result = x[0] * x[2];  
        System.out.println(result);  
    }  
}
```

**Answer**

48

**Status :** Correct

**Marks :** 1/1

3. What will be the output of the given code?

```
public class Main {  
    public static void main(String[] args) {  
        int[] arr = {1, 2, 3, 4, 5};  
        int n = arr.length;  
        int temp = arr[0];  
  
        for (int i = 0; i < n - 1; i++) {  
            arr[i] = arr[i + 1];  
        }  
        arr[n - 1] = temp;  
  
        for (int num : arr) {  
            System.out.print(num + " ");  
        }  
    }  
}
```

**Answer**

2 3 4 5 1

**Status :** Correct

**Marks :** 1/1

4. What will be the output of the following code?

```
class Q {  
    public static void main(String[] args) {  
        int[] a = {1, 2, 3, 4};  
        for (int i = 0; i < a.length; i++) {  
            if (a[i] % 2 == 0)  
                a[i] = 0;  
        }  
        System.out.println(a[1] + " " + a[3]);  
    }  
}
```

**Answer**

0 0

**Status :** Correct

**Marks :** 1/1

5. What will be the output of the following code?

```
class Sample {  
    public static void main(String[] args) {  
        int[][] matrix = {  
            {1, 2, 3},  
            {4, 5, 6}  
        };  
        System.out.println(matrix[1][2]);  
    }  
}
```

**Answer**

6

**Status :** Correct

**Marks :** 1/1



6. What will be the output of the following code?

```
class Q {  
    public static void main(String[] args) {  
        int[] nums = {4, 2, 9, 5};  
        int max = nums[0];  
        for (int i = 1; i < nums.length; i++) {  
            if (nums[i] > max)  
                max = nums[i];  
        }  
        System.out.println(max);  
    }  
}
```

**Answer**

9

**Status : Correct**

**Marks : 1/1**

7. What will be the output of the following code?

```
class Q {  
    public static void main(String[] args) {  
        int[][] arr = {  
            {5, 6, 7},  
            {8, 9, 10}  
        };  
        System.out.println(arr[0][2]);  
    }  
}
```

**Answer**

7

**Status : Correct**

**Marks : 1/1**

8. What will be the output of the following code?

```
class Q {
```

```
public static void main(String[] args) {  
    int[] nums = {3, 6, 7, 2, 8};  
    int sum = 0;  
    for (int i = 0; i < nums.length; i++) {  
        if (nums[i] % 2 == 0)  
            sum += nums[i];  
    }  
    System.out.println(sum);  
}
```

**Answer**

16

**Status :** Correct

**Marks :** 1/1

9. What will be the output of the following code?

```
class Sample {  
    public static void main(String[] args) {  
        int[] a = {1, 2, 3};  
        int product = 1;  
        for (int i = 0; i < a.length; i++) {  
            product *= a[i];  
        }  
        System.out.println(product);  
    }  
}
```

**Answer**

6

**Status :** Correct

**Marks :** 1/1

10. What will be the output of the following code?

```
class Q {  
    public static void main(String[] args) {  
        int[] a = {1, 2, 1, 3, 1, 4};
```

```
int count = 0;
for (int i = 0; i < a.length; i++) {
    if (a[i] == 1) count++;
}
System.out.println(count);
}
```

**Answer**

3

**Status : Correct**

**Marks : 1/1**

11. What will be the output of the following code?

```
class M {
    public static void main(String[] args) {
        int[][] arr = {
            {1, 2},
            {3, 4},
            {5, 6}
        };

        for (int i = 0; i < arr.length; i++) {
            System.out.print(arr[i][0] + " ");
        }
    }
}
```

**Answer**

1 3 5

**Status : Correct**

**Marks : 1/1**

12. What will be the output of the following code?

```
class Q {
    public static void main(String[] args) {
        int[][] a = {
```

```

        {1, 2},
        {3, 4}
    };
    int sum = 0;
    for (int i = 0; i < a.length; i++)
        for (int j = 0; j < a[0].length; j++)
            sum += a[i][j];
    System.out.println(sum);
}
}

```

**Answer**

10

**Status :** Correct

**Marks :** 1/1

13. What will be the output of the following code?

```

class Sample {
    public static void main(String[] args) {
        int[][] data = {
            {1, 2},
            {3, 4}
        };
        int sum = 0;

        for (int[] row : data) {
            for (int val : row) {
                sum += val;
            }
        }

        System.out.println("Sum = " + sum);
    }
}

```

**Answer**

Sum = 10

**Status :** Correct

**Marks :** 1/1

14. What will be the output of the following code?

```
class Q {  
    public static void main(String[] args) {  
        int[] a = {1, 2, 3, 4};  
        for (int i = 0; i < a.length / 2; i++) {  
            int temp = a[i];  
            a[i] = a[a.length - 1 - i];  
            a[a.length - 1 - i] = temp;  
        }  
        System.out.println(a[0]);  
    }  
}
```

**Answer**

4

**Status :** Correct

**Marks :** 1/1

15. What will be the output of the following code?

```
class ReverseArray {  
    public static void main(String[] args) {  
        int[] a = {1, 2, 3, 4};  
        for (int i = 0; i < a.length / 2; i++) {  
            int temp = a[i];  
            a[i] = a[a.length - 1 - i];  
            a[a.length - 1 - i] = temp;  
        }  
        for (int i : a)  
            System.out.print(i + " ");  
    }  
}
```

**Answer**

4 3 2 1

**Status :** Correct

**Marks :** 1/1