

Rajalakshmi Engineering College

Name: Ramya J.T
Email: 241801223@rajalakshmi.edu.in
Roll no: 241801223
Phone: 8946015292
Branch: REC
Department: AI & DS - Section 5
Batch: 2028
Degree: B.E - AI & DS

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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

```
// You are using Java
import java.util.Scanner;
class Divisor{
    public static void main(String[] args){
        int n;
        Scanner s=new Scanner(System.in);
        n=s.nextInt();
        int count=0;
        for(int num=102;num<=987 && count<n;num++){
            int dig1=num/100;
            int dig2=(num/10)%10;
            int dig3=num%10;
            if(dig1!=dig2 && dig1!=dig3 && dig2!=dig3 && num%3==0){
                System.out.println(num);
                count++;
            }
        }
    }
}
```

Status : Correct

Marks : 10/10