

Rajalakshmi Engineering College

Name: Pranav r

Email: 240701394@rajalakshmi.edu.in

Roll no: 240701394

Phone: 6383557477

Branch: REC

Department: CSE - Section 9

Batch: 2028

Degree: B.E - CSE

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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.Scanner;
class number{
    public static void main(String[] args){
        Scanner sc=new Scanner(System.in);
        int N=sc.nextInt();
        int count=0;
        for(int i=100;i<=999;i++)
        {
            int hundreds=i/100;
            int tens=(i/10)%10;
            int ones=i%10;
            if(hundreds!=tens && hundreds!=ones && tens!=ones)
            {
                if(i%3==0){
                    System.out.println(i);
                    count++;
                    if(count==N){
                        break;
                    }
                }
            }
        }
        sc.close();
    }
}
```

Status : Correct

Marks : 10/10