

Rajalakshmi Engineering College

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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;
public class Main{
    public static void main(String[] args){
        Scanner myobj = new Scanner(System.in);
        int n = myobj.nextInt();
        int j=100;
        while(n!=0){
            int m=j%3;
            int a=j%10;
            int b=(j%100)/10;
            int c=(j%1000)/100;
            if(m==0 && (a!=b && b!=c && c!=a))
            {
                System.out.println(j);
                n=n-1;
            }
            j++;
        }
    }
}
```

Status : Correct

Marks : 10/10