

Rajalakshmi Engineering College

Name: Aswin Balaji P
Email: 240701062@rajalakshmi.edu.in
Roll no: 240701062
Phone: 6381413039
Branch: REC
Department: CSE - Section 6
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 Main{
    public static void main(String args[]){
        Scanner s = new Scanner(System.in);
        int n,c=0,i,j,num,k;
        n = s.nextInt();
        for(i=1;i<=9&& c<n;i++){
            for(j=0;j<=9&& c<n;j++){
                if(j==i) continue;
                for(k=0;k<=9&& c<n;k++){
                    if(k==i || k==j) continue;
                    num = i*100 + j*10+k;
                    if(num%3 == 0){
                        System.out.println(num+" ");
                        c++;
                        if(c==n) break;
                    }
                }
            }
        }
    }
}
```

Status : Correct

Marks : 10/10