

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;
class Main{
    public static void main(String args[]){
        Scanner scan=new Scanner(System.in);
        int n=scan.nextInt();
        int c=0;
        for(int j=0;j<n;j++){
            for(int i=100;i<1000&&c!=n;i++){
                if(i%3==0){
                    if((i%10!=(i/10)%10) && (i%10!=(i/100)%10) && ((i/100)%10!
=(i/10)%10)){
                        System.out.println(i);
                        c++;
                    }
                }
            }
        }
    }
}
```

Status : Correct

Marks : 10/10