

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.*;
class main{
    public static void main(String args[]){
        Scanner s=new Scanner(System.in);
        int n=s.nextInt();
        int count=0;
        for(int d1=1;d1<=9;d1++){
            for(int d2=0;d2<=9;d2++){
                for(int d3=0;d3<=9;d3++){
                    if(d1!=d2 && d1!=d3 && d2!=d3){
                        int num=d1*100+d2*10+d3;
                        if(num%3==0){
                            System.out.println(num);
                            count++;
                            if(count>=n){
                                return;
                            }
                        }
                    }
                }
            }
        }
        if(count<n){
            System.out.println("Only "+count+" secure codes available.");
        }
    }
}
```

}

Status : Correct

Marks : 10/10