

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

```
import java.util.*;

public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int N = sc.nextInt();

        int count = 0;
        for(int num = 100; num <= 999 && count < N; num++) {
            if(num % 3 != 0) continue;

            String s = Integer.toString(num);

            // check unique digits
            if(s.charAt(0) != s.charAt(1)
                && s.charAt(0) != s.charAt(2)
                && s.charAt(1) != s.charAt(2)) {

                System.out.println(num);
                count++;
            }
        }
    }
}
```

Status : Correct

Marks : 10/10