

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.Scanner;
class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int N = sc.nextInt();
        int count = 0;
        for (int i=1;i<=9&&count<N;i++) {
            for (int j=0;j<=9 && count<N;j++) {
                for (int k=0; k<=9 && count<N; k++) {
                    if (i!=j && i!=k && j!=k) {
                        int num=i*100+j*10+k;
                        if (num%3==0) {
                            System.out.print(num+" ");
                            count++;
                            if (count==N) break;
                        }
                    }
                }
            }
        }
        sc.close();
    }
}
```

Status : Correct

Marks : 10/10