

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 wa{
    public static void main(String[] args){
        Scanner in = new Scanner(System.in);
        int a= in.nextInt();
        int c=100;
        for(int i=0;i<a;i++){
            while(true){
                int d=c;
                int aa=d%10; d/=10;
                int bb=d%10; d/=10;
                int cc=d;
                if(c%3==0 && aa!=bb && bb!=cc && cc!=aa ){
                    System.out.printf("%d",c);
                    System.out.printf("\n");
                    d=c;
                    c++;
                    break;
                }
                c++;
            }
        }
    }
}
```

Status : Correct

Marks : 10/10