

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.io.*;
import java.util.*;
class Main
{
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        int n=sc.nextInt();
        int co=0;
        for(int a=1;a<=9;a++)
        {
            for(int b=0;b<=9;b++)
            {
                if(a==b) continue;
                for(int c=0;c<=9;c++)
                {
                    if(c==a || c==b) continue;
                    int no=a*100+b*10+c;
                    if(no%3==0)
                    {
                        System.out.println(no);
                        co++;
                        if(co==n)
                        {
                            sc.close();
                            return;
                        }
                    }
                }
            }
        }
    }
}
```

```
        }  
    }  
}
```

Status : Correct

Marks : 10/10