

Rajalakshmi Engineering College

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Department: AI & DS - Section 3

Batch: 2028

Degree: B.E - AI & DS

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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.Scanner;
public class Main{
    public static void main(String[]args){
        Scanner s=new Scanner(System.in);
        int a=s.nextInt();
        int m,k,l,p,h=0;
        p=102+3*2*a;
        for(int i=0;i<1;i++){
            for(int j=102;j<p;j++){
                if(j%3==0){
                    int x=j;
                    int y=j;
                    m=y%10;
                    y=y/10;
                    k=y%10;
                    y=y/10;
                    l=y%10;
                    if(m!=k && m!=l && k!=l){
                        h++;
                        System.out.printf("%d\n",x);
                        if(h==a){
                            break;
                        }
                    }
                }
            }
        }
    }
}
```

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}

Status : Correct

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Marks : 10/10