

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;
```

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