

# 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.Scanner;
```

```
class m
```

```
{
```

```
    public static void main(String args[])
```

```
    {
```

```
        Scanner a = new Scanner(System.in);
```

```
        int n = a.nextInt();
```

```
        int num = 102;
```

```
        for(int j = 0;j<n;
```

```
        {
```

```
            if(num%10!=num/100 && (num/10)%10!=num/100 && (num/10)%10!=num
```

```
%10)
```

```
            {
```

```
                while(num%3==0)
```

```
                {
```

```
                    System.out.println(num);
```

```
                    num=num+1;
```

```
                    j++;
```

```
                }
```

```
            }
```

```
            num=num+1;
```

```
        }
```

```
    }
```

```
}
```

**Status :** Correct

**Marks :** 10/10