

# 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 line,s 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 main{
```

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

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

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

```
        int count=0;
```

```
        for(int d1=1;d1<=9;d1++){
```

```
            for(int d2=0;d2<=9;d2++){
```

```
                for(int d3=0;d3<=9;d3++){
```

```
                    if(d1!=d2 && d1!=d3 && d2!=d3){
```

```
                        int num=d1*100+d2*10+d3;
```

```
                        if(num%3==0){
```

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

```
                            count++;
```

```
                            if(count>=n){
```

```
                                return;
```

```
                        }
```

```
                    }
```

```
                }
```

```
            }
```

```
        }
```

```
    }
```

```
    if(count<n){
```

```
        System.out.println("Only "+count+" secure codes available.");
```

```
    }
```

```
}
```

}

**Status :** Correct

**Marks :** 10/10