

Rajalakshmi Engineering College

Name: Nandhini Velmurugan
Email: 241901063@rajalakshmi.edu.in
Roll no: 241901063
Phone: 9043367699
Branch: REC
Department: CSE (CS) - Section 1
Batch: 2028
Degree: B.E - CSE (CS)

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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.*;
```

```
class main{
```

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

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

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

```
        int count=0;
```

```
        for(int i=100;i<=999;i++){
```

```
            int o=i%10;
```

```
            int t=(i%100)/10;
```

```
            int h=i/100;
```

```
            if(o!=t && t!=h && o!=h){
```

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

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

```
                    count++;
```

```
                }
```

```
            }
```

```
            if(count==a){
```

```
                break;
```

```
            }
```

```
        }
```

```
    }
```

```
}
```

Status : Correct

Marks : 10/10