

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

{

```
Scanner sc = new Scanner(System.in);
int N = sc.nextInt();
sc.close();
```

```
int count = 0;
```

```
// Digits from 0-9, but the first digit can't be 0 (to keep 3-digit)
for (int i = 1; i <= 9 && count < N; i++)
```

{

```
    for (int j = 0; j <= 9 && count < N; j++)
```

{

```
        for (int k = 0; k <= 9 && count < N; k++)
```

```
{  
    // Check unique digits  
    if (i != j && j != k && i != k)  
  
    {  
  
        int number = i * 100 + j * 10 + k;  
        // Check divisible by 3  
        if (number % 3 == 0)  
        {  
            System.out.println(number);  
            count++;  
        }  
    }  
}
```

Status : Correct

Marks : 10/10