

Rajalakshmi Engineering College

Name: Venkat krishna.A
Email: 241801308@rajalakshmi.edu.in
Roll no: 241801308
Phone: 9361019427
Branch: REC
Department: AI & DS - Section 5
Batch: 2028
Degree: B.E - AI & DS

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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 scanner=new Scanner(System.in);
        int n =scanner.nextInt();
        int a=100,b=0;
        int[] d=new int[3];
        while(b<n && a>=100 && a<=999)
        {
            int t=a;
            int i=0;
            while(t>0)
            {
                int r=t%10;
                d[i++]=r;
                t=t/10;
            }
            if(d[0]!=d[1] && d[0]!=d[2])
            {
                if(d[1]!=d[2])
                {
                    if(a%3==0){
                        System.out.println(a);
                        b++;
                    }
                }
            }
        }
    }
}
```

```
}  
    }  
    a++;  
}  
}
```

Status : Correct

Marks : 10/10