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● EASY

● Max Score: 30 Points

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ArmstrongNumber

Write a program to print out all Armstrong numbers between 1 and N .

A number is called an Armstrong number if the sum of cubes of each digit of the number is equal to the number itself.

For example, $153 = (1 * 1 * 1) + (5 * 5 * 5) + (3 * 3 * 3)$

Input Format

The input contains a single integer representing N .

Output Format

Print all the Armstrong numbers from 1 to N in separate lines.

Example 1

Input

200

Output

1

153

Explanation

1 and 153 are only Armstrong numbers between 1 to 200.

Example 2

Input

1000

Output

1
153
370
371
407

Explanation

1, 153, 370, 371, 407 are only Armstrong numbers between 1 to 1000.

Constraints

$1 \leq N \leq 10^6$

Topic Tags

- Math
- Loops
- Basics

My code

// in java

```
import java.util.*;  
import java.lang.*;
```

```
import java.io.*;

public class Main
{
    public static void main (String[] args) throws java.lang.Exception
    {
        //your code here
        Scanner s=new Scanner(System.in);
        int n=s.nextInt();
        for( int i=1;i<=n;i++){
            int r=i;
            int sum=0;
            while(r>0)
            {
                int rem=r%10;
                rem=rem*rem*rem;
                sum=sum+rem;
                r/=10;
            }
            if(sum==i) System.out.print(i +"\n");}
        }
    }
}
```