import java.util.\*; // Program to find Disarium Number using Recursion

public class Disarium // Class Name

{

int n,size,cpy;

public Disarium(int nn) { // Parameterised Constructor

cpy=nn;

n=nn;

size=0;

}

public void Countdigits() { // Member Function

int t = n;

while(t>0) {

size++;

t = t / 10;

}

}

public int Sumofdigits(int ns,int p,int dis) { // Member Function Parameterised

if(ns==0)

return dis;

else {

int d = ns % 10;

dis = dis + (int) Math.pow(d,p);

return (Sumofdigits(ns/10,p-1,dis)); // Recursive Call

}

}

public void check() { // Member Function to check Disarium or not

int ans=0; // local Variable

ans = Sumofdigits(n,size,0);

if(ans==cpy)

System.out.println("Its a Disarium Number");

else

System.out.println("Not a Disarium Number");

}

public static void main() { // Main Method

Scanner sc = new Scanner(System.in);

System.out.println("Enter the number: ");

int n1 = sc.nextInt();

Disarium ob = new Disarium(n1);

ob.Countdigits();

ob.check(); // Member function Call

}

}