import java.util.\*;

class Main {

public static void main(String[] args) {

//have your logic here

int num,t,rem,sum=0,n;

Scanner s=new Scanner(System.in);

System.out.println("Enter a number");

num=s.nextInt();

t = num;

while (t != 0)

{

rem = t % 10;

sum = sum + rem;

t = t / 10;

}

n=num/sum;

if((num%sum)==0){

if((isPrime(n))==true)

{

System.out.println(num+" is a strong Harshad number");

}

else {

System.out.println(num+" is a Harshad number");

}

}

else

{

System.out.println(num+" is not a harshad number");

}

}

static boolean isPrime(int n)

{

int c=0;

for (int i = 1; i <= n; i++) {

if (n % i == 0) {

c++;

}

}

if (c == 2) {

return true;

}

else {

return false;

}

}

}