/\*

Write a Java program to find sum of the digits of a number

note : Enter number > 0

sample

1. input = 1234

output = 10

2. input = 56

output = 11

\*/

import java.util.\*;

class Sum\_of\_Digits

{

int r,sum=0;

void calculate(int n)

{

while(n>=1)

{

r=n%10;

sum=sum+r;

n=n/10;

}

System.out.println(sum);

}

}

class Test

{

public static void main(String args[])

{

Sum\_of\_Digits sd=new Sum\_of\_Digits();

Scanner s=new Scanner(System.in);

int n=s.nextInt();

sd.calculate(n);

}

}

/\* Write a Java program to check whether the entered number is perfect number or not

sample

1. input = 28

output = perfect number

2. input = 100

output = not perfect number

\*/

import java.util.\*;

class PerfectNumber

{

int sum=0;

int calculate(int n)

{

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

if(n%i==0)

sum=sum+i;

return sum;

}

}

class Test

{

public static void main(String args[])

{

PerfectNumber p=new PerfectNumber();

Scanner s=new Scanner(System.in);

int n=s.nextInt();

int temp=p.calculate(n);

if(temp==n)

System.out.println("perfect number");

else

System.out.println("not perfect number");

}

}

/\* Write a Java program to find Gcd of two numbers using recursion

sample

input =

3

17

output =

1

\*/

import java.util.\*;

class Gcd

{

int process(int a,int b,int r)

{

if(b==0)

return a;

else

{

r=a%b;

a=b;

b=r;

return(process(a,b,r));

}

}

}

class Test

{

public static void main(String args[])

{

int a,b,r=0,res;

Scanner s=new Scanner(System.in);

a=s.nextInt();

b=s.nextInt();

Gcd g=new Gcd();

res=g.process(a,b,r);

System.out.println(res);

}

}