

import java.util.Scanner;
public class task1
{
public static void main(String []args)
{
Scanner sc1=new Scanner(System.in);
System.out.println("Enter the name of your favourite car:");
String name;
name=sc1.nextLine();
Scanner sc2=new Scanner(System.in);
System.out.println("Enter a number:");
intnum;
num=sc2.nextInt();
int x=1;
while(x<=num)
{
System.out.println(name);
x++;
}
}
}

import java.util.Scanner;
public class task2
{
public static void main(String []args)
{
int x=10;
while(x<=50)
{
if(x%2==0)
{
System.out.println(x);
}
x++;
}
}
}

import java.util.Scanner;
public class task3
{
public static void main(String []args)
{
Scanner sc1=new Scanner(System.in);
System.out.println("Enter the 1st number:");
int n1;
n1=sc1.nextInt();
int x=1;
int max=n1;
int avg=0;
int sum=n1;
while(x<=19)
{
Scanner sc2=new Scanner(System.in);
System.out.println("Enter another number:");
int n;
n=sc2.nextInt();
sum=sum+n;
if(n>max)
{
max=n;
}
x++;
}
avg=sum/20;
System.out.println("The average is: "+avg);
System.out.println("The maximum is: "+max);
}

import java.util.Scanner;
public class task4
{
public static void main(String []args)
{
Scanner sc1=new Scanner(System.in);
System.out.println("Enter the 1st number:");
int n1;
n1=sc1.nextInt();
int c=1;
int avg=0;
int sum=0;
int min=n1;
int a=0;
if(n1%2==0)
{
sum=n1;
a=1;
}
while(c<=19)
{
Scanner sc2=new Scanner(System.in);
System.out.println("Enter another number:");
int n;
n=sc2.nextInt();
if(n%2==0)
{
sum=sum+n;
a++;
}
if(n<min)
{
min=n;
}
c++;
}
avg=sum/a;
System.out.println("The average is: "+avg);
System.out.println("The minimum is: "+min);
}
}

import java.util.Scanner;
public class task5
{
public static void main(String []args)
{
Scanner sc1=new Scanner(System.in);
System.out.println("Enter a number:");
int n;
n=sc1.nextInt();
inti=1;
int y=0;
while(i<=n)
{
y=y+(i*i*i);
i++;
}
System.out.println("y="+y);
}
}

import java.util.Scanner;
public class task6
{
public static void main(String []args)
{
Scanner sc1=new Scanner(System.in);
System.out.println("Enter a number:");
int n;
n=sc1.nextInt();
inti=1;
int y=0;
while(i<=n)
{
if(i%2==0)
{
y=y-(i*i);
}
else
{
y=y+(i*i);
}
i++;
}
System.out.println("y="+y);
}
}

import java.util.Scanner;
public class task7
{
public static void main(String []args)
{
int sum=0;
for(int n=1;n<=600;n++)
{
if((n%7==0)&&(n%9==0))
{
sum=sum+n;
}
}
System.out.println("sum:"+sum);
}
}

import java.util.Scanner;
public class task8
{
public static void main(String []args)
{
int sum=0;
for(int n=1;n<=600;n++)
{
if((n%7==0) (n%9==0))
{
sum=sum+n;
}
}
System.out.println("sum:"+sum);
}
}

import java.util.Scanner;
public class task9
{
public static void main(String []args)
{
int sum=0;
for(int n=1;n<=600;n++)
{
if((((n%7==0)&&(n%9!=0)) ((n%9==0)&&(n%7!=0)))
{
sum=sum+n;
}
}
System.out.println("sum:"+sum);
}
}

import java.util.Scanner;
public class task10
{
public static void main(String []args)
{
int sum=0;
int avg=0;
int b=0;
int x=1;
while(x<=10)
{
Scanner sc1=new Scanner(System.in);
System.out.println("Enter a number:");
int n;
n=sc1.nextInt();
if(n%2!=0)
{
b++;
sum=sum+n;
}
x++;
}
avg=sum/b;
System.out.println("total: "+sum);
System.out.println("average: "+avg);
}
}

import java.util.Scanner;
public class task11
{
public static void main(String []args)
{
int sum=0;
int avg=0;
int b=0;
int x=1;
while(x<=10)
{
Scanner sc1=new Scanner(System.in);
System.out.println("Enter a number:");
int n;
n=sc1.nextInt();
if(n%2==0)
{
b++;
sum=sum+n;
}
x++;
}
avg=sum/b;
System.out.println("total: "+sum);
System.out.println("average: "+avg);
}
}

import java.util.Scanner;
public class task12
{
public static void main(String []args)
{
int sum=0;
int avg=0;
int b=0;
int x=1;
while(x<=10)
{
Scanner sc1=new Scanner(System.in);
System.out.println("Enter a number:");
int n;
n=sc1.nextInt();
if(n%4==0)
{
b++;
sum=sum+n;
}
x++;
}
avg=sum/b;
System.out.println("total: "+sum);
System.out.println("average: "+avg);
}
}

import java.util.Scanner;
public class task13
{
public static void main(String []args)
{
Scanner sc1=new Scanner(System.in);
System.out.println("Enter a number:");
intnum;
num=sc1.nextInt();
int sum=0;
int c=1;
while(c<=num)
{
if(c%2!=0)
{
sum=sum+c;
}
c++;
}
System.out.println("sum: "+sum);
}
}

import java.util.Scanner;
public class task14
{
public static void main(String []args)
{
Scanner sc1=new Scanner(System.in);
System.out.println("Enter a number excluding zero:");
int n;
n=sc1.nextInt();
int product=1;
int c=1;
while(c<=n)
{
Scanner sc=new Scanner(System.in);
System.out.println("Enter a number for product:");
int num;
num=sc.nextInt();
product=product*num;
c++;
}
System.out.println("product: "+product);
}
}

import java.util.Scanner;
public class task15
{
public static void main(String []args)
{
int c=1;
int sum=0;
while(c<=20)
{
Scanner sc=new Scanner(System.in);
System.out.println("Enter a number :");
intnum;
num=sc.nextInt();
sum=sum+num;
System.out.println(sum);
c++;
}
}
}

import java.util.Scanner;
public class task16
{
public static void main(String []args)
{
Scanner sc1=new Scanner(System.in);
System.out.println("Enter a course mark :");
int m1;
m1=sc1.nextInt();
int max=m1;
int min=m1;
int avg=0;
int sum=m1;
int x=1;
while(x<=9)
{
Scanner sc2=new Scanner(System.in);
System.out.println("Please give another mark:");
int m;
m=sc2.nextInt();
if(m>max)
{max=m;}
else if(m<min)
{min=m;}
sum=sum+m;
x++;
}
avg=sum/10;
System.out.println("The average is: "+avg);
System.out.println("The maximum is: "+max);
System.out.println("The minimum is: "+min);
}
}

import java.util.Scanner;
public class task17
{
public static void main(String []args)
{
int x=0;
int y=1;
int z=0;
while(x<1600)
{
z=x+y;
System.out.print(x+" ");
x=y;
y=z;
}
System.out.println(" ");
}
}

import java.util.Scanner;
public class task18
{
public static void main(String []args)
{
Scanner sc1=new Scanner(System.in);
System.out.println("Enter a number:");
intnum;
intdigitCount=0;
num=sc1.nextInt();
while(num>0)
{
num=num/10;
digitCount++;
}
System.out.println(digitCount +"digits");
}
}

import java.util.Scanner;
public class task19
{
public static void main(String []args)
{
Scanner sc1=new Scanner(System.in);
System.out.println("Enter a number:");
int n;
n=sc1.nextInt();
int x=1;
int c=1;
while(c<=n)
{
x=x*10;
c++;
}
System.out.println(x);
}
}

import java.util.Scanner;
public class task20
{
public static void main(String []args)
{
Scanner sc1=new Scanner(System.in);
System.out.println("Enter a number:");
int n;
n=sc1.nextInt();
int r=0;
while(n>0)
{
r=n%10;
System.out.print(r+",");
n=n/10;
}
}
}

import java.util.Scanner;
public class task21
{
public static void main(String []args)
{
Scanner sc1=new Scanner(System.in);
System.out.println("Enter a number:");
intnum;
num=sc1.nextInt();
int dc=0;
int digit=0;
int x=1;
int c=1;
int temp=num;
while(temp>0)
{
temp=temp/10;
dc++;
}
while(c<=(dc-1))
{
x=x*10;
c++;
}
while(num>=0)
{
if (x>0)
{
digit=num/x;
System.out.println(digit);
num=num%x;
x=x/10;
}
}
}
}

import java.util.Scanner;
public class task22
{
public static void main(String []args)
{
Scanner sc1=new Scanner(System.in);
System.out.println("Enter a number between 0 to 9:");
int n;
n=sc1.nextInt();
if(n==0){System.out.println("zero");}
else if(n==1){System.out.println("one");}
else if(n==2){System.out.println("two");}
else if(n==3){System.out.println("three");}
else if(n==4){System.out.println("four");}
else if(n==5){System.out.println("five");}
else if(n==6){System.out.println("six");}
else if(n==7){System.out.println("seven");}
else if(n==8){System.out.println("eight");}
else {System.out.println("nine");}
}
}

import java.util.Scanner;
public class task23
{
public static void main(String []args)
{
Scanner sc1=new Scanner(System.in);
System.out.println("Enter a number:");
intnum;
num=sc1.nextInt();
int dc=0;
int digit=0;
int x=1;
int c=1;
int temp=num;
while(temp>0)
{
temp=temp/10;
dc++;
}
while(c<=(dc-1))
{
x=x*10;
c++;
}
while(num>0)
{
digit=num/x;
if(digit==0){System.out.println("zero");}
else if(digit==1){System.out.println("one");}
else if(digit==2){System.out.println("two");}
else if(digit==3){System.out.println("three");}
else if(digit==4){System.out.println("four");}
else if(digit==5){System.out.println("five");}
else if(digit==6){System.out.println("six");}
else if(digit==7){System.out.println("seven");}
else if(digit==8){System.out.println("eight");}
else {System.out.println("nine");}
num=num%x;
x=x/10;
}
}
}

import java.util.Scanner;
public class task24
{
public static void main(String []args)
{
Scanner sc1=new Scanner(System.in);
System.out.println("Enter a number:");
intnum;
num=sc1.nextInt();
inti=1;
while(i<=num)
{
System.out.print(i+" ,");
i++;
}
}
}

import java.util.Scanner;
public class task25
{
public static void main(String []args)
{
Scanner sc1=new Scanner(System.in);
System.out.println("Enter a number:");
int n;
n=sc1.nextInt();
int c=1;
int r=0;
int lc=0;
while(c<=n)
{
r=n%c;
if(r==0)
{lc++;}
c++;
}
System.out.println(lc);
}
}

import java.util.Scanner;
public class task26
{
public static void main(String []args)
{
Scanner sc1=new Scanner(System.in);
System.out.println("Enter a number:");
int n;
n=sc1.nextInt();
int x=1;
int r=0;
int fc=0;
while(x<=n)
{
r=n%x;
if(r==0)
{fc++;}
x++;
}
if(fc==2)
{System.out.println("It is a prime number");}
else
System.out.println("It is not a prime number");
}
}

import java.util.Scanner;
public class task27
{
public static void main(String []args)
{
inti=1;
int r=0;
while(i<1000)
{
int dc=0;
int p=1;
while(p<=i)
{
r=i%p;
if(r==0)
{dc++;}
p++;
}
if(dc==2)
{System.out.println(i);}
i++;
}
}
}

import java.util.Scanner;
public class task28
{
public static void main(String []args)
{
Scanner sc1=new Scanner(System.in);
System.out.println("Enter a number:");
int num;
num=sc1.nextInt();
int c=1;
int r=0;
int sum=0;
while(c<=num)
{
r=num%c;
if(r==0)
{sum=sum+c;}
c++;
}
System.out.println(sum);
}
}

import java.util.Scanner;
public class task29
{
public static void main(String []args)
{
Scanner sc1=new Scanner(System.in);
System.out.println("Enter a number:");
intnum;
num=sc1.nextInt();
int c=1;
int r=0;
int sum=0;
while(c<num)
{
r=num%c;
if(r==0)
{sum=sum+c;}
c++;
}
if(sum==num)
{System.out.println(num+" is a perfect number ");}
else
{System.out.println(num+" is not a perfect number ");}
}
}

```

import java.util.Scanner;
public class task30
{
    public static void main(String []args )
    {
        Scanner sc1=new Scanner(System.in);
        System.out.println("Enter the first number of range :");
        int n1;
        n1=sc1.nextInt();
        Scanner sc2=new Scanner(System.in);
        System.out.println("Enter the last number of range :");
        int n2;
        n2=sc2.nextInt();
        inti=n1;
        int r=0;
        int prime=0;
        int perfect=0;
        while(i<=n2)
        {
            int sum=0;
            int dc=0;
            int c=1;
            if(i==1)
            {
                prime=0;
                perfect=0;
            }
            else{
                {
                    while(c<i)
                    {
                        r=i%c;
                        if(r==0)
                        {
                            sum=sum+c;
                            dc++;
                        }
                    }
                    c++;
                }
                if(dc==1)
                {prime++;}
                if(sum==i)
                {perfect++;}
            }
            i++;
        }
        System.out.println(prime+" prime number(s) ");
        System.out.println(perfect+" perfect number(s) ");
    }
}

```