**Sum of digits:-**

import java.io.\*;

import java.util.Scanner;

import java.io.FileNotFoundException;

public class Sum

{

public static void main(String args[]) throws FileNotFoundException

{

File f= new File(args[0]);

Scanner ip = new Scanner(f);

String line;

while(ip.hasNextLine())

{

line = ip.nextLine();

int a = Integer.parseInt(line);

int d=0,m;

while(a>0)

{

m= a%10;

d= d+m;

a= a/10;

}

System.out.println(d);

}

}

}

## EVEN NUMBERS

import java.io.\*;

import java.util.Scanner;

import java.io.FileNotFoundException;

public class Main

{

public static void main(String args[]) throws FileNotFoundException

{

File f= new File(args[0]);

Scanner ip = new Scanner(f);

String line;

while(ip.hasNextLine())

{

line = ip.nextLine();

int a = Integer.parseInt(line);

if(a%2 == 0)

System.out.println("1");

else

System.out.println("0");

}

}

}

# Prime Numbers

import java.io.\*;

import java.util.Scanner;

import java.io.FileNotFoundException;

public class Main

{

int d=0,m;

public static void main(String args[]) throws FileNotFoundException

{

File f= new File(args[0]);

Scanner ip = new Scanner(f);

String line;

List<Integer> primes = new ArrayList<>();

while(ip.hasNextLine())

{

line = ip.nextLine();

int n = Integer.parseInt(line);

for (int i = 2; i < n; i++) {

boolean isPrimeNumber = true;

// check to see if the number is prime

for (int j = 2; j < i; j++) {

if (i % j == 0) {

isPrimeNumber = false;

break; // exit the inner for loop

}

}

// print the number if prime

if (isPrimeNumber) {

primes.add(i);

}

}

String s = primes.toString().replace("[", "").replace("]", "");

System.out.println(s);

}

}

}

## FIBONACCI SERIES

import java.io.\*;

import java.util.Scanner;

import java.io.FileNotFoundException;

public class Main

{

public static void main(String args[]) throws FileNotFoundException

{

int k=0,a=0,b=1,i=2;

File f= new File(args[0]);

Scanner ip = new Scanner(f);

String line;

while(ip.hasNextLine())

{

line = ip.nextLine();

int n = Integer.parseInt(line);

if(n==0)

System.out.println("0");

else if(n==1)

System.out.println("1");

else

{

while(i<=n)

{

k=a+b;

a=b;

b=k;

i++;

}

}

if(n>1)

System.out.println(k);

}

}

}

## PRIME PALINDROME

public class Prime

{

public static void main(String args[])

{

for(int i=1000;i>100;i--)

{

if(isPrime(i))

{

if(isPalindrome(i))

{

System.out.println(i);

break;

}

//System.out.println("prime");

}

}

}

public static boolean isPrime(int k)

{

int x=0;

for(int j=1;j<=k;j++)

{

if(k%j==0)

x++;

}

if(x==2)

return true;

else

return false;

}

public static boolean isPalindrome(int k)

{

int rev=0;

int temp = k;

while(k>0)

{

int dig=k%10;

rev=rev\*10 +dig;

k=k/10;

}

if(temp==rev)

return true;

else

return false;

}

}

## WORD TO DIGIT

import java.io.File;

import java.io.Fil-eNotFoundException;

import java.util.Scanner;

public class Main

{

public static void main(String[] args) throws FileNotFoundException

{

File file = new File(args[0]);

Scanner fileScanner = new Scanner(file);

while (fileScanner.hasNextLine())

{

String r1=fileScanner.nextLine();

String rem[]=r1.split(";");

for(int i=0;i<rem.length;i++)

{

if(rem[i].equals("one"))

System.out.print("1");

else if(rem[i].equals("two"))

System.out.print("2");

else if(rem[i].equals("three"))

System.out.print("3");

else if(rem[i].equals("four"))

System.out.print("4");

else if(rem[i].equals("five"))

System.out.print("5");

else if(rem[i].equals("six"))

System.out.print("6");

else if(rem[i].equals("seven"))

System.out.print("7");

else if(rem[i].equals("eight"))

System.out.print("8");

else if(rem[i].equals("nine"))

System.out.print("9");

else

System.out.print("0");

}

System.out.println();

}

}

}

# Lowercase

import java.io.File;

import java.io.FileNotFoundException;

import java.util.Scanner;

public class Main

{

public static void main(String[] args) throws FileNotFoundException

{

File file = new File(args[0]);

Scanner fileScanner = new Scanner(file);

while (fileScanner.hasNextLine())

{

String r1=fileScanner.nextLine();

String lower= r1.toLowerCase();

System.out.println(lower);

}

}

}

# Penultimate Word

import java.io.File;

import java.io.FileNotFoundException;

import java.util.Scanner;

public class Main

{

public static void main(String[] args) throws FileNotFoundException

{

File file = new File(args[0]);

Scanner fileScanner = new Scanner(file);

while (fileScanner.hasNextLine())

{

String r1=fileScanner.nextLine();

String rem[]=r1.split(" ");

int len=rem.length;

len--;

--len;

System.out.println(rem[len]);

}

}

}

# Rightmost Char

import java.io.File;

import java.io.FileNotFoundException;

import java.util.Scanner;

public class Main

{

public static void main(String[] args) throws FileNotFoundException

{

File file = new File(args[0]);

Scanner fileScanner = new Scanner(file);

while (fileScanner.hasNextLine())

{

String r1=fileScanner.nextLine();

String rem[]=r1.split(",");

char cr=rem[1].charAt(0);

System.out.println(rem[0].lastIndexOf(cr));

}

}

}

# Mth To Last Element

import java.io.File;

import java.io.FileNotFoundException;

import java.util.Scanner;

public class Main

{

public static void main(String[] args) throws FileNotFoundException

{

File file = new File(args[0]);

Scanner fileScanner = new Scanner(file);

while (fileScanner.hasNextLine())

{

String r1=fileScanner.nextLine();

String rem[]=r1.split(" ");

int len=rem.length;

len--;

int last=Integer.parseInt(rem[len]);

int res=len-last;

if(res>=0)

System.out.println(rem[res]);

else

System.out.println();

}

}

}

# Remove Characters

(Need re-programming)

import java.io.File;

import java.io.FileNotFoundException;

import java.util.Scanner;

public class Main

{

public static void main(String[] args) throws FileNotFoundException

{

File file = new File(args[0]);

Scanner fileScanner = new Scanner(file);

while (fileScanner.hasNextLine())

{

String r1=fileScanner.nextLine();

String rem[]=r1.split(",");

String rm;

rem[1]= rem[1].trim();

//String ktr=rem[0].replaceAll("[rem[1]]","");

//ktr=ktr.trim();

char arr[]=rem[1].tocharArray();

for(int i=0;i<arr.length;i++)

rm=rem[0].replace('arr[i]','');

System.out.println(rm);

}

}

}

# Simple Sorting

(Partially correct)

import java.io.File;

import java.io.FileNotFoundException;

import java.util.Scanner;

import java.util.Arrays;

import java.util.\*;

public class Main

{

public static void main(String[] args) throws FileNotFoundException

{

File file = new File(args[0]);

Scanner fileScanner = new Scanner(file);

while (fileScanner.hasNextLine())

{

String r1=fileScanner.nextLine();

float rem[]=r1.split(" ");

//int size=rem.length;

int i;

float k[]=new float[rem.length];

for(i=0;i<rem.length;i++)

k[i]=Float.parseFloat(rem[i]);

Arrays.sort(k);

for(i=0;i<rem.length;i++)

System.out.print(k[i]+" ");

System.out.println();

}

} }

# File Size

import java.io.File;

import java.io.FileNotFoundException;

import java.util.Scanner;

import java.util.Arrays;

//import java.util.\*;

public class Main

{

public static void main(String[] args) throws FileNotFoundException

{

File file = new File(args[0]);

//Scanner fileScanner = new Scanner(file);

System.out.println(file.length());

}

}

## N MOD M

import java.io.File;

import java.io.FileNotFoundException;

import java.util.Scanner;

import java.util.Arrays;

import java.util.\*;

public class Main

{

public static void main(String[] args) throws FileNotFoundException

{

File file = new File(args[0]);

Scanner fileScanner = new Scanner(file);

while (fileScanner.hasNextLine())

{

String r1=fileScanner.nextLine();

String rem[]=r1.split(",");

int k[]= new int[rem.length];

for(int i=0;i<rem.length;i++)

k[i]=Integer.parseInt(rem[i]);

while(k[0]>k[1])

{

k[0]=k[0]-k[1];

}

if(k[0]>0)

System.out.println(k[0]);

else

System.out.println(k[0]+k[1]);

}

} }

# Longest Word

import java.io.File;

import java.io.FileNotFoundException;

import java.util.Scanner;

import java.util.Arrays;

import java.util.\*;

public class Main

{

public static void main(String[] args) throws FileNotFoundException

{

File file = new File(args[0]);

Scanner fileScanner = new Scanner(file);

while (fileScanner.hasNextLine())

{

int greater=0;

String r1=fileScanner.nextLine();

String rem[]=r1.split(" ");

for(int i=0;i<rem.length;i++)

{

if(rem[i].length()>rem[greater].length())

greater=i;

}

System.out.println(rem[greater]);

}

}

}

# Multiply Lists

import java.io.File;

import java.io.FileNotFoundException;

import java.util.Scanner;

import java.util.Arrays;

import java.util.\*;

public class Main

{

public static void main(String[] args) throws FileNotFoundException

{

File file = new File(args[0]);

Scanner fileScanner = new Scanner(file);

while (fileScanner.hasNextLine())

{

int greater=0;

String r1=fileScanner.nextLine();

String rem[]=r1.split("\\|");

rem[0]=rem[0].trim();

rem[1]=rem[1].trim();

String bal1[]=rem[0].split("\\s+");

String bal2[]=rem[1].split("\\s+");

int a[]=new int[bal1.length];

int b[]=new int[bal2.length];

for(int i=0;i<a.length;i++)

{

a[i]=Integer.parseInt(bal1[i]);

b[i]=Integer.parseInt(bal2[i]);

System.out.print(a[i]\*b[i]+" ");

}

System.out.println();

}

}

}

# Hidden Digits

import java.io.File;

import java.io.FileNotFoundException;

import java.util.Scanner;

import java.util.Arrays;

import java.util.\*;

public class Main

{

public static void main(String[] args) throws FileNotFoundException

{

File file = new File(args[0]);

Scanner fileScanner = new Scanner(file);

while (fileScanner.hasNextLine())

{

int k=0;

String r1=fileScanner.nextLine();

//String rem[]=r1.split("\\|");

int len=r1.length();

for(int i=0;i<len;i++)

{

char c=r1.charAt(i);

if(c=='a' || c=='0')

{

System.out.print("0");

k++;

}

else if(c=='b' || c=='1')

{

System.out.print("1");

k++;

}

else if(c=='c' || c=='2')

{

System.out.print("2");

k++;

}

else if(c=='d' || c=='3')

{

System.out.print("3");

k++;

}

else if(c=='e' || c=='4')

{

System.out.print("4");

k++;

}

else if(c=='f' || c=='5')

{

System.out.print("5");

k++;

}

else if(c=='g' || c=='6')

{

System.out.print("6");

k++;

}

else if(c=='h' || c=='7')

{

System.out.print("7");

k++;

}

else if(c=='i' || c=='8')

{

System.out.print("8");

k++;

}

else if(c=='j' || c=='9')

{

System.out.print("9");

k++;

}

else

c='b';

}

if(k==0)

System.out.print("NONE");

System.out.println();

}

}

}

# Age Distribution

import java.io.File;

import java.io.FileNotFoundException;

import java.util.Scanner;

import java.util.Arrays;

import java.util.\*;

public class Main

{

public static void main(String[] args) throws FileNotFoundException

{

File file = new File(args[0]);

Scanner fileScanner = new Scanner(file);

while (fileScanner.hasNextLine())

{

String r1=fileScanner.nextLine();

int t=Integer.parseInt(r1);

if(t<0)

System.out.println("This program is for humans");

else if(t>100)

System.out.println("This program is for humans");

else if(t>65)

System.out.println("The Golden Years");

else if(t>22)

System.out.println("Working for the man");

else if(t>18)

System.out.println("College");

else if(t>14)

System.out.println("High school");

else if(t>11)

System.out.println("Middle school");

else if(t>4)

System.out.println("Elementary school");

else if(t>2)

System.out.println("Preschool Maniac");

else

System.out.println("Still in Mama's arms");

}

}

}

# Reverse Words

import java.io.File;

import java.io.FileNotFoundException;

import java.util.Scanner;

import java.util.Arrays;

import java.util.\*;

public class Main

{

public static void main(String[] args) throws FileNotFoundException

{

File file = new File(args[0]);

Scanner fileScanner = new Scanner(file);

while (fileScanner.hasNextLine())

{

String r1=fileScanner.nextLine();

String rem[]=r1.split(" ");

//int size=rem.length;

int i=rem.length;

i--;

for(int k=i;k>=0;k--)

{

System.out.print(rem[k]+" ");

}

System.out.println();

}

} }

## CAPITALIZE WORDS

import java.io.File;

import java.io.FileNotFoundException;

import java.util.Scanner;

import java.util.Arrays;

import java.util.\*;

public class Main

{

public static void main(String[] args) throws FileNotFoundException

{

File file = new File(args[0]);

//int[] temp = new int[800];

Scanner fileScanner = new Scanner(file);

while(fileScanner.hasNextLine())

{

String r1=fileScanner.nextLine();

String rem[]=r1.split(" ");

for(int i=0;i<rem.length;i++)

{

System.out.print(rem[i].substring(0,1).toUpperCase() + rem[i].substring(1) + " ");

}

System.out.println();

}

} }

# Minimum Coins

import java.io.File;

import java.io.FileNotFoundException;

import java.util.Scanner;

import java.util.Arrays;

import java.util.\*;

public class Main

{

public static void main(String[] args) throws FileNotFoundException

{

File file = new File(args[0]);

Scanner fileScanner = new Scanner(file);

while (fileScanner.hasNextLine())

{

String r1=fileScanner.nextLine();

int k=Integer.parseInt(r1);

int count=0;

while(k>=5)

{

k=k-5;

count++;

}

while(k>=3)

{

k=k-3;

count++;

}

while(k>=1)

{

k=k-1;

count++;

}

System.out.println(count);

}

}

}

# Counting Primes

import java.io.File;

import java.io.FileNotFoundException;

import java.util.Scanner;

public class Main

{

public static void main(String[] args) throws FileNotFoundException

{

File file = new File(args[0]);

Scanner fileScanner = new Scanner(file);

while (fileScanner.hasNextLine())

{

String r1=fileScanner.nextLine();

String rem[]=r1.split(",");

int n1=Integer.parseInt(rem[0]);

int n2=Integer.parseInt(rem[1]);

int pn=0;

for(int i=n1;i<=n2;i++)

{

int counter=0;

for(int num=i;num>=1;num--)

{

if(i%num == 0)

counter++;

}

if(counter==2)

pn++;

}

System.out.println(pn);

//System.out.println(rem[0]+" "+rem[1]);

}

}

}