public class Divisors

{

public static void main (String[] args)

{

int chosenNumber = Integer.parseInt(args[0]);

int count = 1;

while (count <= chosenNumber)

{

int modMod = chosenNumber%count;

if (modMod==0)

{

System.out.println(count);

}

count = count + 1;

}

}

}

public class Reverse

{

public static void main (String[] args)

{

String chosenWord = (args[0]); //romi

String reveredWord = "";

for (int i = chosenWord.length()-1; i>=0; i--) //i=1

{

reveredWord = reveredWord + chosenWord.charAt(i); //imor

}

System.out.println(reveredWord);

if (((chosenWord.length())%2) == 0 ) //4%2==0

{

System.out.println("The middle character is " + (chosenWord.charAt((chosenWord.length()/2)-1)));

}

else

{

System.out.println("The middle character is " + (chosenWord.charAt((chosenWord.length())/2)));

}

}

}

public class InOrder

{

public static void main (String[] args)

{

int random = (int) (Math.random()\*10);

int currentBiggest = (int)(Math.random()\*10);

String toBePrinted = Integer.toString(random);

if (currentBiggest < random) {

System.out.println(random);

}

else

{

toBePrinted = toBePrinted + " " + currentBiggest;

random = (int)(Math.random()\*10);

while (random>=currentBiggest){

toBePrinted = toBePrinted + " " + random;

currentBiggest = random;

random = (int)(Math.random()\*10);

}

System.out.println(toBePrinted);

}

}

}

public class Perfect

{

public static void main (String[] args)

{

int isPerfect = Integer.parseInt(args[0]);

int sumOfDevisions = 0;

String toBePrinted = "";

String finelPrint = "";

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

{

if (isPerfect%i==0)

{

sumOfDevisions = sumOfDevisions + i;

toBePrinted = toBePrinted + (i) + " + ";

}

}

int length = toBePrinted.length();

if (toBePrinted.charAt(length-2) == 43){

finelPrint = toBePrinted.substring(0,length-2);

}

if (isPerfect==sumOfDevisions)

{

System.out.println( isPerfect + " is a perfect number since " + isPerfect + " = " + finelPrint );

}

else

{

System.out.println( isPerfect + " is not a perfect number");

}

}

}

public class DamkaBoard

{

public static void main(String[] args)

{

int boardSize = Integer.parseInt(args[0]);

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

{

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

{

if (i%2==0)

{

System.out.print(" \*");

}

else

{

System.out.print("\* ");

}

}

System.out.println();

}

}

}

import java.util.Random;

public class OneOfEachStats

{

public static void main (String[] args)

{

int numberOfExperiments = Integer.parseInt(args[0]);

int seed = Integer.parseInt(args[1]);

Random generator = new Random(seed);

int i=1;

String toBePrinted = "";

int numberOfChildren = 0;

int fourOrMore = 0;

int twoChildren = 0;

int threeChildren = 0;

String mostCommon ="";

double total = 0;

while (i<=numberOfExperiments)

{

numberOfChildren = 0;

double randomBoyOrGirl = generator.nextDouble();

boolean isGirl = (randomBoyOrGirl>=0.5);

if (isGirl)

{

numberOfChildren = numberOfChildren +1;

while (isGirl)

{

randomBoyOrGirl = generator.nextDouble();

isGirl=(randomBoyOrGirl>=0.5);

numberOfChildren = numberOfChildren +1;

}

}

else

{

numberOfChildren = numberOfChildren+1;

while (!isGirl)

{

randomBoyOrGirl = generator.nextDouble();

isGirl=(randomBoyOrGirl>=0.5);

numberOfChildren = numberOfChildren + 1;

}

}

total = total+numberOfChildren;

if(numberOfChildren>=4)

{

fourOrMore++;

}

else if (numberOfChildren==3)

{

threeChildren++; //3

}

else if (numberOfChildren==2)

{

twoChildren++;

}

i++;

}

if(fourOrMore>threeChildren && fourOrMore>twoChildren)

{

mostCommon= "4 or more" ;

}

else if(threeChildren>fourOrMore && threeChildren>twoChildren)

{

mostCommon="3";

}

else if(twoChildren>fourOrMore && twoChildren>threeChildren)

{

mostCommon="2";

}

double averageNumber = total/numberOfExperiments;

System.out.println("Average: " + averageNumber + " children to get at least one of each gender.");

System.out.println("Number of families with 2 children: " + twoChildren);

System.out.println("Number of families with 3 children: " + threeChildren );

System.out.println("Number of families with 4 or more children: "+ fourOrMore );

System.out.println("The most common number of children is " + mostCommon+".");

}

}