Divisors

public class Divisors {

public static void main (String[] args) {

//// Put your code here

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

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

if(num % i == 0)

{

System.out.println(i);

}

}

}

}

Reverse

public class Reverse {

public static void main (String[] args){

String s = args[0];

int middle = s.length() / 2;

char midChar;

if(s.length() % 2 == 0){

midChar = s.charAt(middle-1);

}

else {

midChar = s.charAt(middle);

}

for(int i = s.length() - 1; i >= 0 ; i--){

System.out.print(s.charAt(i));

}

System.out.println();

System.out.println("The middle character is " + midChar);

}

}

InOrder

public class InOrder {

public static void main (String[] args) {

//// Write your code here

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

int lastNum = random;

System.out.print(random + " ");

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

while(random > lastNum){

System.out.print(random + " ");

lastNum = random;

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

}

}

}

DamkaBoard

public class DamkaBoard {

public static void main(String[] args) {

//// Put your code here

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

for(int row = 1; row <= num; row++){

for(int col = 1; col <= num; col++){

if(row % 2 == 0){

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

}

else{

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

}

}

System.out.println();

}

}

}

Perfect

public class Perfect {

public static void main (String[] args) {

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

int sum = 1;

String s = num + " is a perfect number since " + num + " = 1";

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

if(num % i == 0){

sum += i;

s += " + " + i;

}

}

if(sum == num) {

System.out.println(s);

}

else {

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

}

}

}

OneOfEachStats

public class OneOfEachStats {

public static void main (String[] args) {

// Gets the two command-line arguments

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

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

// Initailizes a random numbers generator with the given seed value

Random generator = new Random(seed);

int numOf2Children = 0;

int numOf3Children = 0;

int numOf4Children = 0;

int countOfChildren = 0;

int countTotal = 0;

double rnd = generator.nextDouble();

for(int i = 0; i < T; i++){

countOfChildren = 0;

if(rnd >= 0.5){

while(rnd >= 0.5){

countOfChildren++;

countTotal++;

rnd = generator.nextDouble();

}

countOfChildren++;

countTotal++;

}

else{

while(rnd < 0.5){

countOfChildren++;

countTotal++;

rnd = generator.nextDouble();

}

countOfChildren++;

countTotal++;

}

if(countOfChildren == 2){

numOf2Children++;

}

if(countOfChildren == 3){

numOf3Children++;

}

if(countOfChildren >=4){

numOf4Children++;

}

}

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

System.out.println("Number of families with 2 children: " + numOf2Children);

System.out.println("Number of families with 3 children: " + numOf3Children);

System.out.println("Number of families with 4 or more children: " + numOf4Children);

if(numOf2Children >= numOf3Children){

if(numOf2Children >= numOf4Children){

System.out.println("The most common number of children is 2");

}

else{

System.out.println("The most common number of children is 4 or more");

}

}

else{

if(numOf3Children >= numOf4Children){

System.out.println("The most common number of children is 3");

}

else{

System.out.println("The most common number of children is 4 or more");

}

}

}

}