/\*\*

\* Gets a command-line argument (int), and prints all the divisors of the given number.

\*/

public class Divisors {

public static void main (String[] args) {

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

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

if (num % i == 0) {

System.out.println(i);

}

}

}

}

/\*\*

\* Prints a given string, backward. Then prints the middle character in the string.

\* The program expects to get one command-line argument: A string.

\*/

public class Reverse {

public static void main (String[] args){

String str1 = args[0];

String str2 = "";

int n = str1.length();

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

str2 = str2 + str1.charAt(n - i - 1);

}

System.out.println(str2);

System.out.println("The middle character is " + str1.charAt((n - 1) / 2));

}

}

import java.util.Random;

/\*\*

\* Generates and prints random integers in the range [0,10),

\* as long as they form a non-decreasing sequence.

\*/

public class InOrder {

public static void main(String[] args) {

int num1 = (int) (Math.random() \* 10);

System.out.print(num1);

int num2;

while ((num2 = (int) (Math.random() \* 10)) > num1) {

System.out.print(" " + num2);

num1 = num2;

}

System.out.println();

}

}

public class DamkaBoard {

public static void main(String[] args) {

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

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

for (int j = 0; j < 2 \* n; j++) {

if ((i + j) % 2 == 0) {

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

} else {

System.out.print(" ");

}

}

System.out.println();

}

}

}

/\*\*

\* Gets a command-line argument (int), and chekcs if the given number is perfect.

\*/

public class Perfect {

public static void main(String[] args) {

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

int sum = 0;

String div = "";

for (int i = 1; i <= num / 2; i++) {

if (num % i == 0) {

sum += i;

if (!(div.length() == 0)) {

div = div + " + ";

}

div = div + i;

}

}

if (sum == num) {

System.out.println(num + " is a perfect number since " + num + " = " + div);

} else {

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

}

}

}

import java.util.Random;

public class OneOfEachStats {

public static void main (String[] args) {