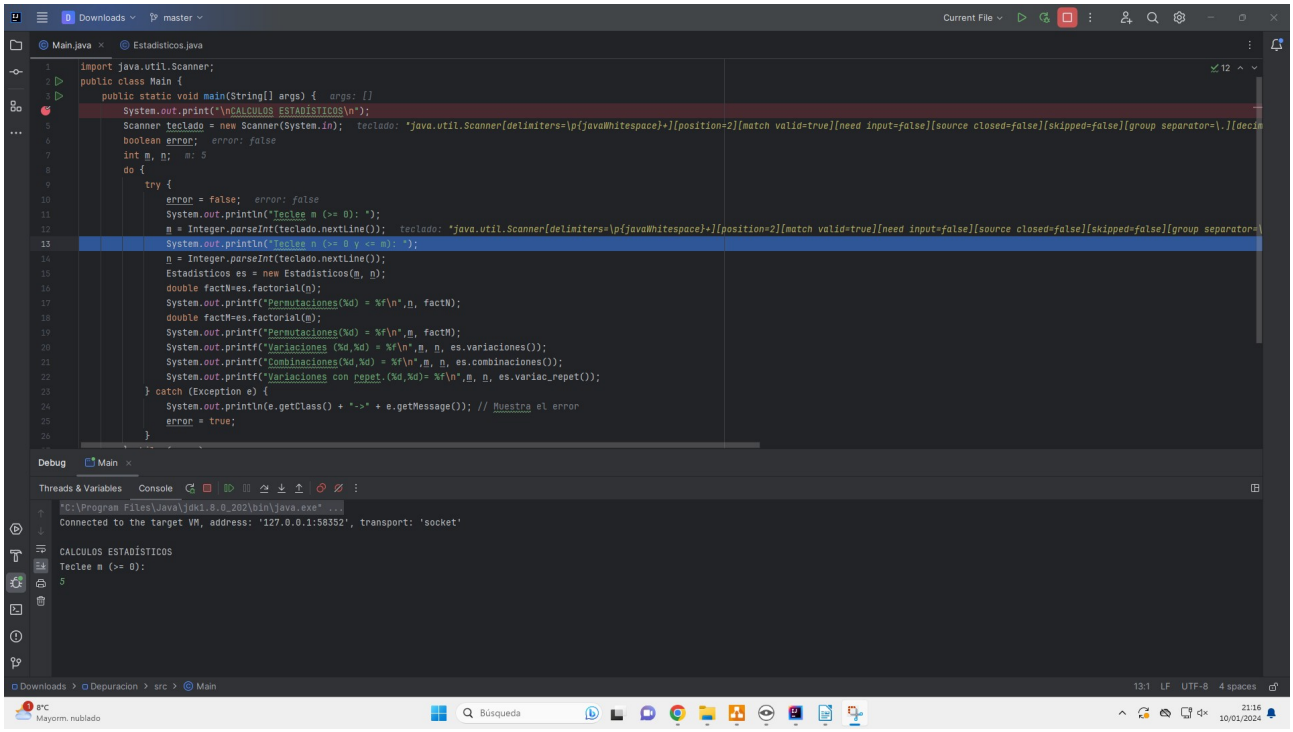
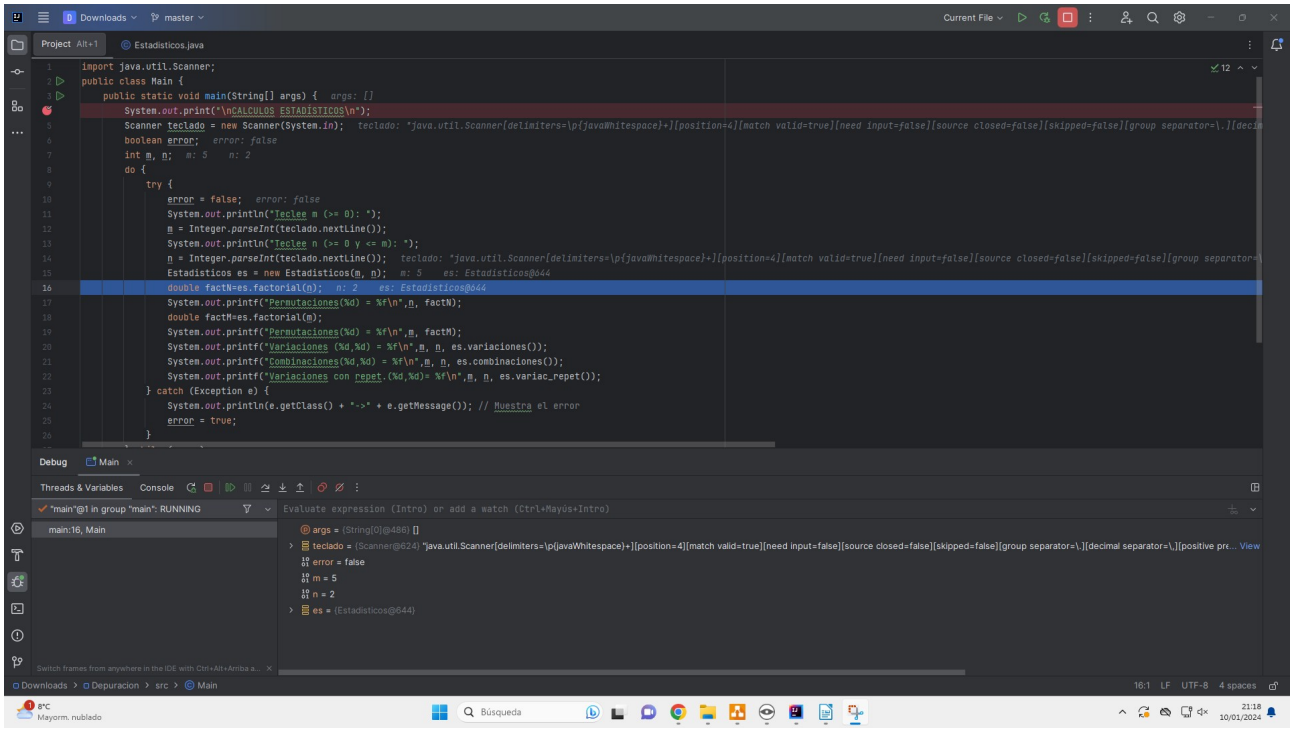
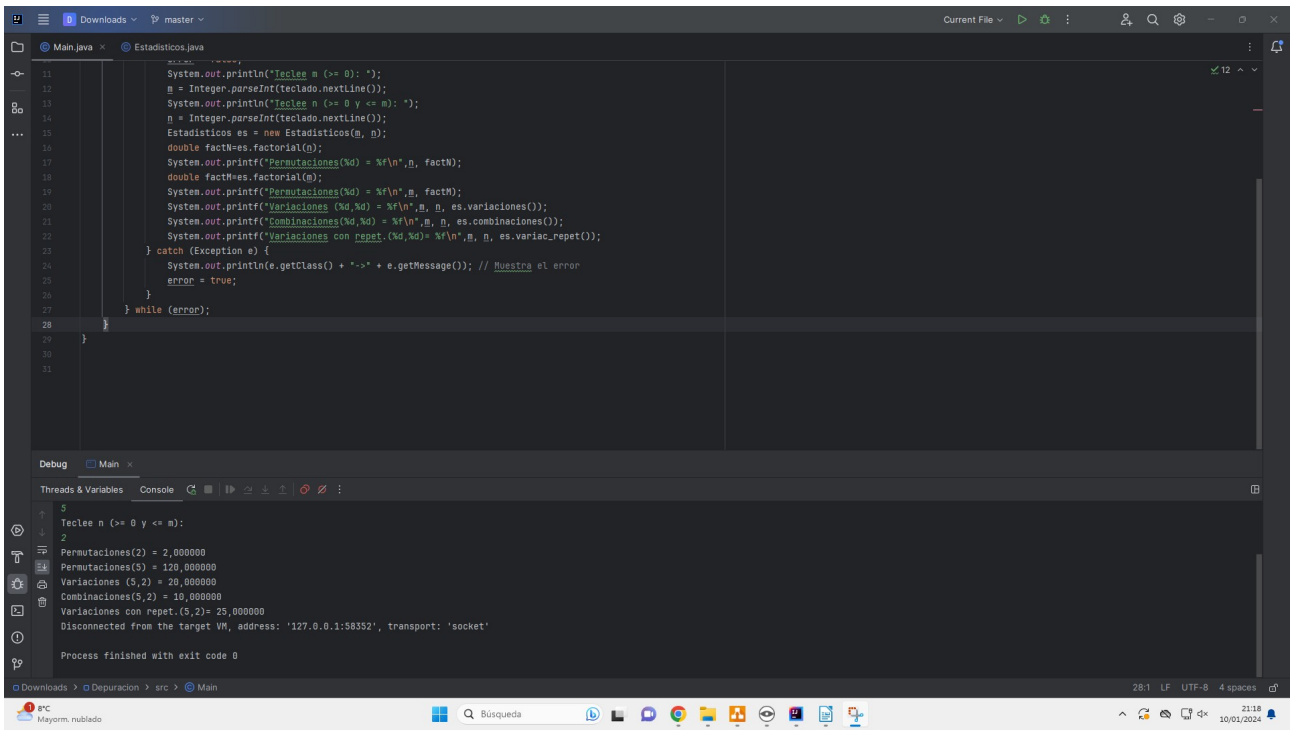
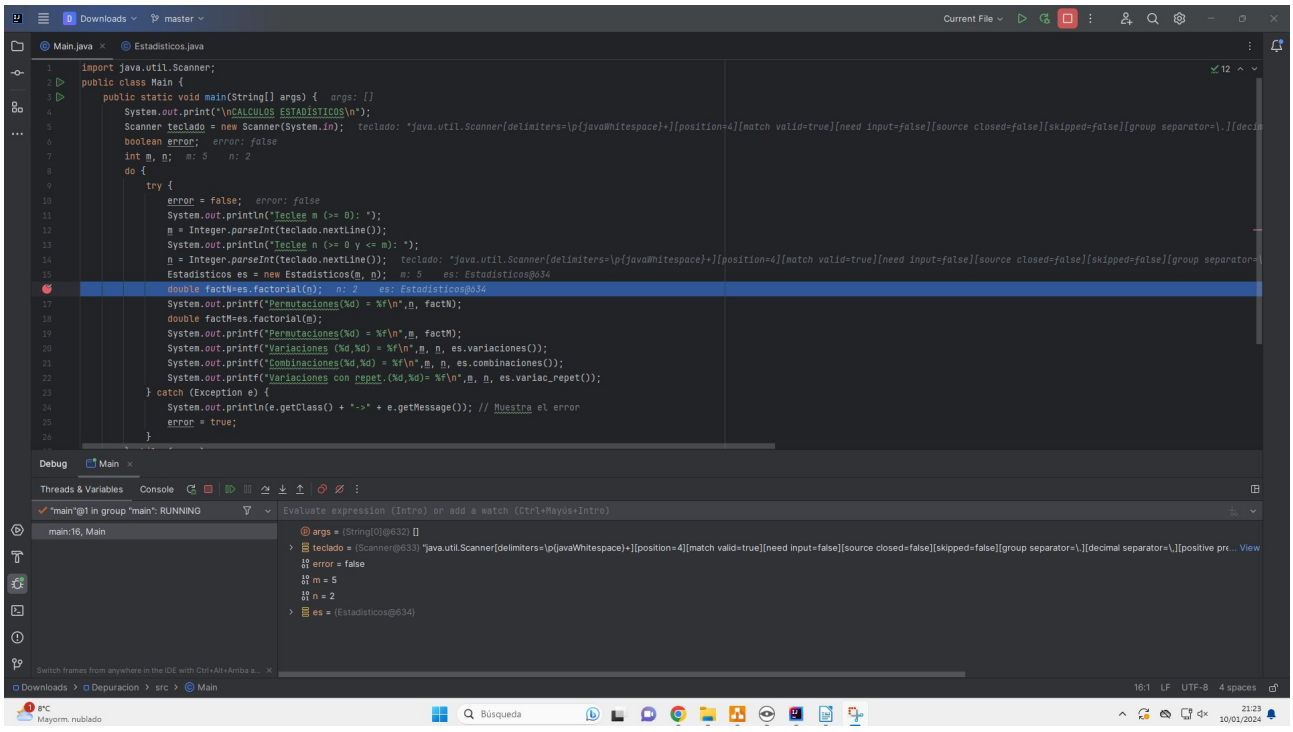
1)

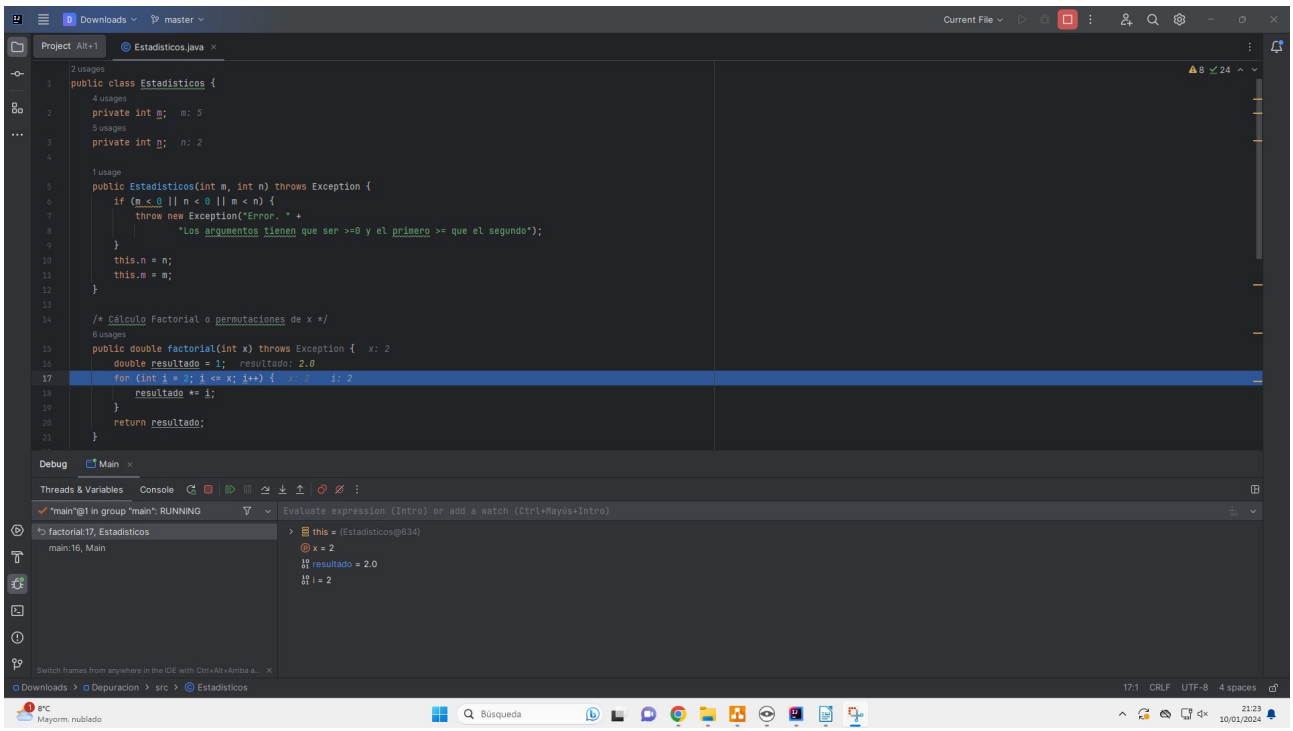

Downloads
master
Current File
Main.java
Estadisticos.java
import java.util.Scanner;
public class Main {
public static void main(String[] args) {
System.out.print("\nCALCULOS ESTADÍSTICOS\n");
Scanner teclado = new Scanner(System.in);
boolean error;
int m, n;
do {
try {
error = false;
System.out.println("Teclee m (>= 0): ");
m = Integer.parseInt(teclado.nextLine());
System.out.println("Teclee n (>= 0 y <= m): ");
n = Integer.parseInt(teclado.nextLine());
Estadisticos es = new Estadisticos(m, n);
double factN=es.factorial(n);
System.out.printf("Permutaciones(%d) = %f\n",n, factN);
double factM=es.factorial(m);
System.out.printf("Permutaciones(%d) = %f\n",m, factM);
System.out.printf("Variaciones (%d,%d) = %f\n",m, n, es.variaciones());
System.out.printf("Combinaciones(%d,%d) = %f\n",m, n, es.combinaciones());
System.out.printf("Variaciones con repet.(%d,%d)= %f\n",m, n, es.variac_repet());
} catch (Exception e) {
System.out.println(e.getClass() + "->" + e.getMessage()); // Muestra el error
error = true;
}
Debug
Main
Threads & Variables
Console
"C:\Program Files\Java\jdk1.8.0_202\bin\java.exe" ...
Connected to the target VM, address: '127.0.0.1:58352', transport: 'socket'
CALCULOS ESTADÍSTICOS
Teclee m (>= 0):
5
Downloads
Depuracion
src
Main
13:1
LF
UTF-8
4 spaces
Búsqueda
21:16
10/01/2024

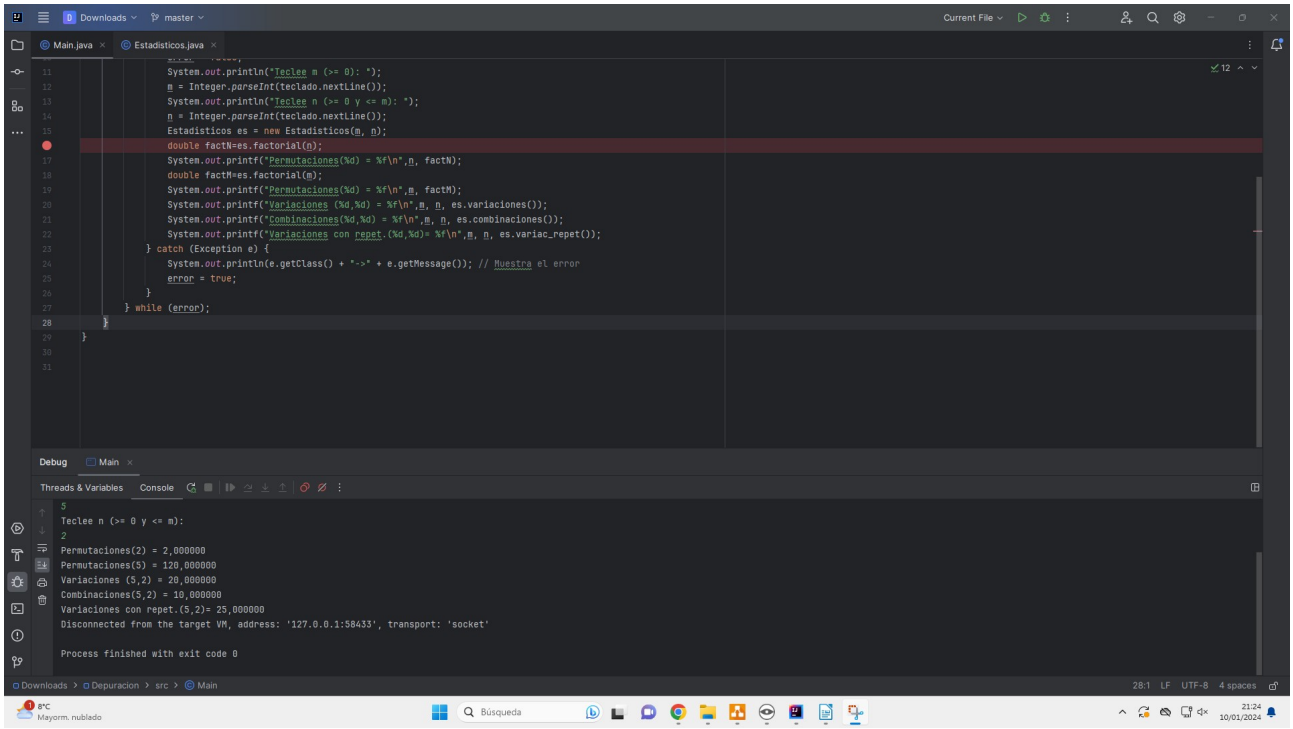

Downloads
master
Current File
Project
Estadisticos.java
import java.util.Scanner;
public class Main {
public static void main(String[] args) {
System.out.print("\nCALCULOS ESTADÍSTICOS\n");
Scanner teclado = new Scanner(System.in);
boolean error;
int m, n;
do {
try {
error = false;
System.out.println("Teclee m (>= 0): ");
m = Integer.parseInt(teclado.nextLine());
System.out.println("Teclee n (>= 0 y <= m): ");
n = Integer.parseInt(teclado.nextLine());
Estadisticos es = new Estadisticos(m, n);
double factN=es.factorial(n);
System.out.printf("Permutaciones(%d) = %f\n",n, factN);
double factM=es.factorial(m);
System.out.printf("Permutaciones(%d) = %f\n",m, factM);
System.out.printf("Variaciones (%d,%d) = %f\n",m, n, es.variaciones());
System.out.printf("Combinaciones(%d,%d) = %f\n",m, n, es.combinaciones());
System.out.printf("Variaciones con repet.(%d,%d)= %f\n",m, n, es.variac_repet());
} catch (Exception e) {
System.out.println(e.getClass() + "->" + e.getMessage()); // Muestra el error
error = true;
}
Debug
Main
Threads & Variables
Console
"main"@1 in group "main": RUNNING
Evaluate expression (Intro) or add a watch (Ctrl+Mayús+Intro)
main:16, Main
args = {String[0]@486} []
teclado = {Scanner@624} "java.util.Scanner[delimiters=\p{javaWhitespace}+][position=4][match valid=true][need input=false][source closed=false][skipped=false][group separator=\,][decimal separator=\.][positive pre... View
error = false
m = 5
n = 2
es = {Estadisticos@644}
Downloads
Depuracion
src
Main
16:1
LF
UTF-8
4 spaces
Búsqueda
21:18
10/01/2024


System.out.println("Teclee m (>= 0): ");
m = Integer.parseInt(teclado.nextLine());
System.out.println("Teclee n (>= 0 y <= m): ");
n = Integer.parseInt(teclado.nextLine());
Estadisticos es = new Estadisticos(m, n);
double factN=es.factorial(n);
System.out.printf("Permutaciones(%d) = %f\n",n, factN);
double factM=es.factorial(m);
System.out.printf("Permutaciones(%d) = %f\n",m, factM);
System.out.printf("Variaciones (%d,%d) = %f\n",m, n, es.variaciones());
System.out.printf("Combinaciones(%d,%d) = %f\n",m, n, es.combinaciones());
System.out.printf("Variaciones con repet.(%d,%d)= %f\n",m, n, es.variac_repet());
} catch (Exception e) {
System.out.println(e.getClass() + "->" + e.getMessage()); // Muestra el error
error = true;
}
} while (error);
}
}
Debug
Main
Threads & Variables
Console
5
Teclee n (>= 0 y <= m):
2
Permutaciones(2) = 2,000000
Permutaciones(5) = 120,000000
Variaciones (5,2) = 20,000000
Combinaciones(5,2) = 10,000000
Variaciones con repet.(5,2)= 25,000000
Disconnected from the target VM, address: '127.0.0.1:58352', transport: 'socket'
Process finished with exit code 0

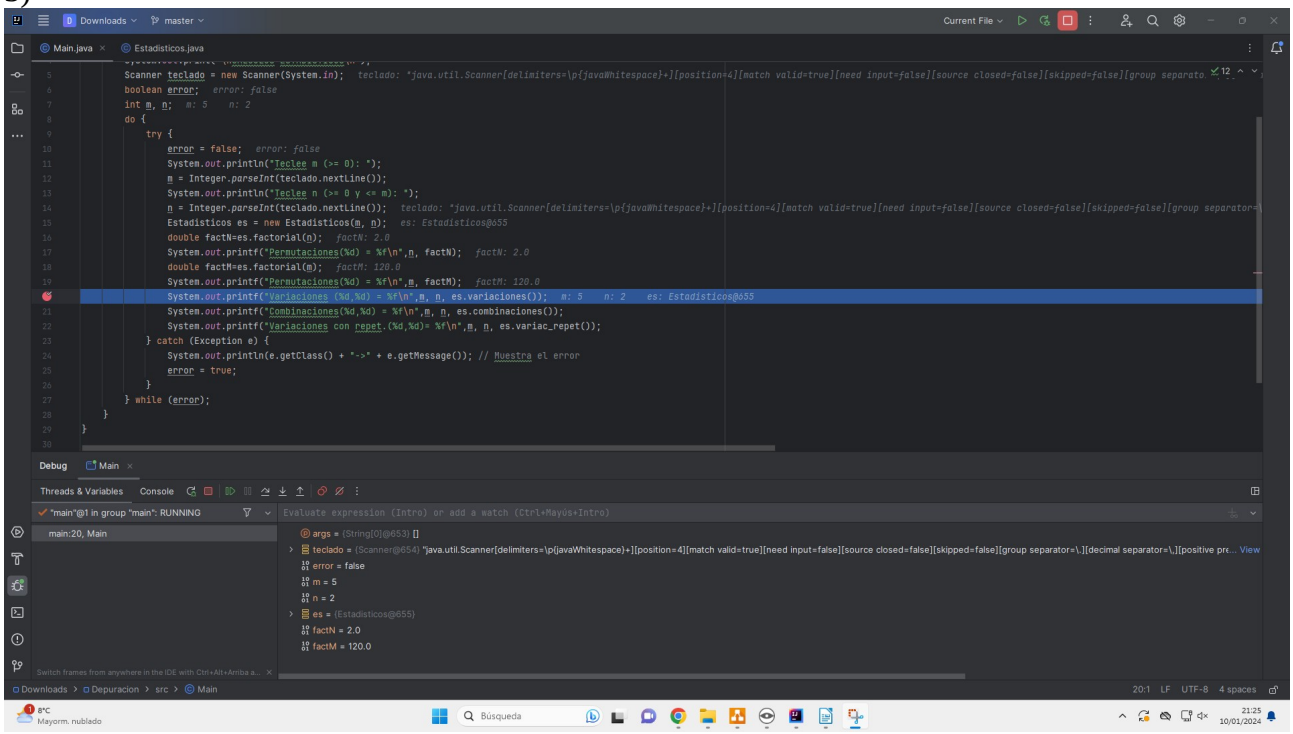
2)

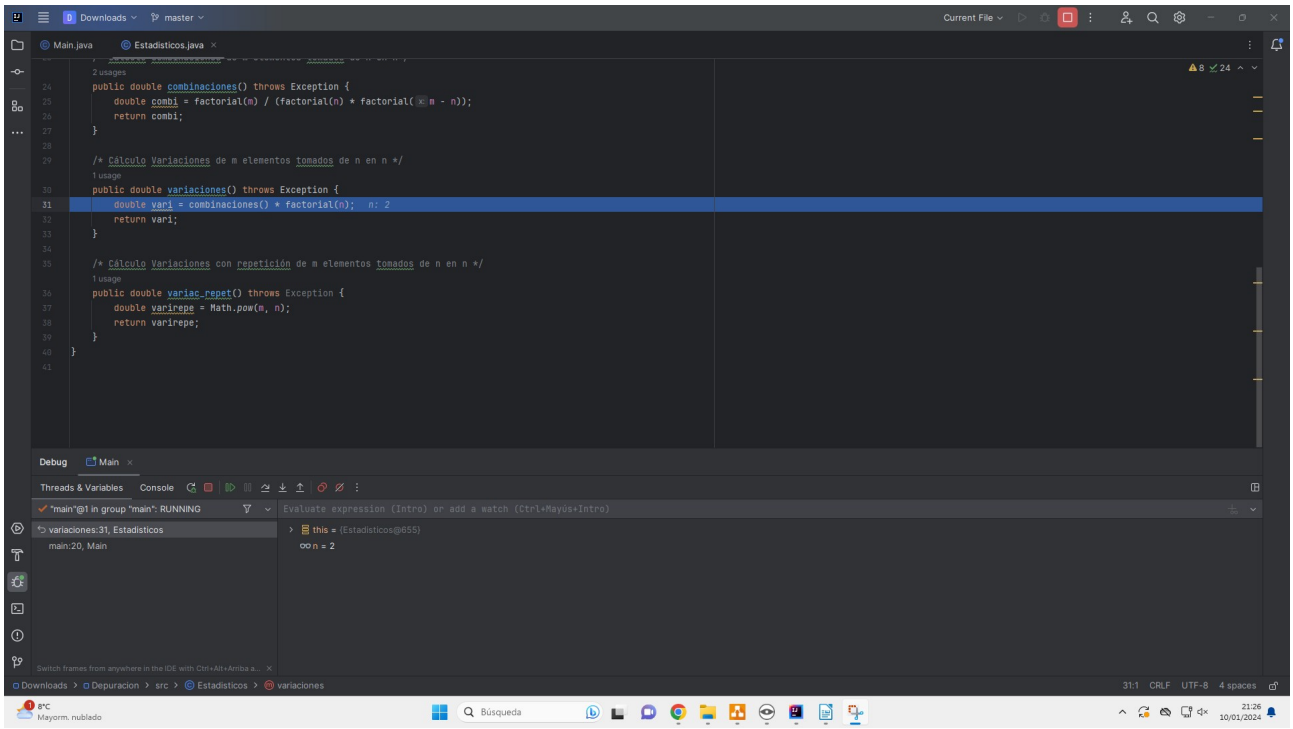

import java.util.Scanner;
public class Main {
public static void main(String[] args) {
System.out.print("\nCALCULOS ESTADÍSTICOS\n");
Scanner teclado = new Scanner(System.in);
boolean error;
int m, n;
do {
try {
error = false;
System.out.println("Teclee m (>= 0): ");
m = Integer.parseInt(teclado.nextLine());
System.out.println("Teclee n (>= 0 y <= m): ");
n = Integer.parseInt(teclado.nextLine());
Estadisticos es = new Estadisticos(m, n);
double factN=es.factorial(n);
System.out.printf("Permutaciones(%d) = %f\n",n, factN);
double factM=es.factorial(m);
System.out.printf("Permutaciones(%d) = %f\n",m, factM);
System.out.printf("Variaciones (%d,%d) = %f\n",m, n, es.variaciones());
System.out.printf("Combinaciones(%d,%d) = %f\n",m, n, es.combinaciones());
System.out.printf("Variaciones con repet.(%d,%d)= %f\n",m, n, es.variac_repet());
} catch (Exception e) {
System.out.println(e.getClass() + "->" + e.getMessage()); // Muestra el error
error = true;
}
Debug
Main
Threads & Variables
Console
"main"@1 in group "main": RUNNING
main:16, Main
args = {String[0]@632} []
teclado = {Scanner@633} "java.util.Scanner[delimiters=\p{javaWhitespace}+][position=4][match valid=true][need input=false][source closed=false][skipped=false][group separator=\,][decimal separator=\,][positive pre... View
error = false
m = 5
n = 2
es = {Estadisticos@634}

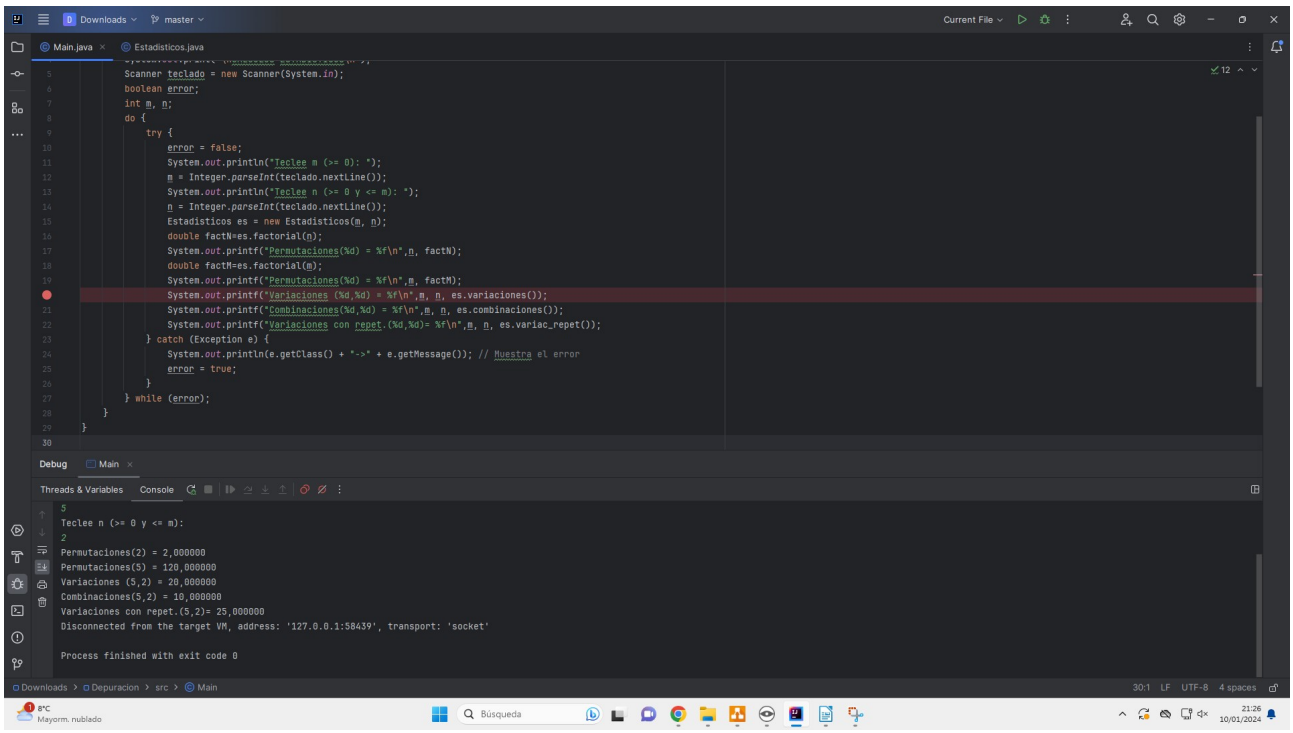

Downloads
master
Current File
Project Alt+1
Estadisticos.java
2 usages
public class Estadisticos {
4 usages
private int m; m: 5
5 usages
private int n; n: 2
1 usage
public Estadisticos(int m, int n) throws Exception {
if (m < 0 || n < 0 || m < n) {
throw new Exception("Error. " +
"Los argumentos tienen que ser >=0 y el primero >= que el segundo");
}
this.n = n;
this.m = m;
}
/* Cálculo Factorial o permutaciones de x */
6 usages
public double factorial(int x) throws Exception { x: 2
double resultado = 1; resultado: 2.0
for (int i = 2; i <= x; i++) { x: 2 i: 2
resultado *= i;
}
return resultado;
}
Debug
Main
Threads & Variables
Console
"main"@1 in group "main": RUNNING
Evaluate expression (Intro) or add a watch (Ctrl+Mayús+Intro)
factorial:17, Estadisticos
main:16, Main
this = {Estadisticos@634}
x = 2
resultado = 2.0
i = 2
Switch frames from anywhere in the IDE with Ctrl+Alt+Arriba a...
Downloads > Depuracion > src > Estadisticos
17:1 CRLF UTF-8 4 spaces
8°C
Mayorm. nublado
Búsqueda
21:23
10/01/2024


Downloads
master
Current File
Main.java
Estadisticos.java
System.out.println("Teclee m (>= 0): ");
m = Integer.parseInt(teclado.nextLine());
System.out.println("Teclee n (>= 0 y <= m): ");
n = Integer.parseInt(teclado.nextLine());
Estadisticos es = new Estadisticos(m, n);
double factN=es.factorial(n);
System.out.printf("Permutaciones(%d) = %f\n",n, factN);
double factM=es.factorial(m);
System.out.printf("Permutaciones(%d) = %f\n",m, factM);
System.out.printf("Variaciones (%d,%d) = %f\n",m, n, es.variaciones());
System.out.printf("Combinaciones(%d,%d) = %f\n",m, n, es.combinaciones());
System.out.printf("Variaciones con repet.(%d,%d)= %f\n",m, n, es.variac_repet());
} catch (Exception e) {
System.out.println(e.getClass() + "->" + e.getMessage()); // Muestra el error
error = true;
}
} while (error);
}
}
Debug
Main
Threads & Variables
Console
5
Teclee n (>= 0 y <= m):
2
Permutaciones(2) = 2,000000
Permutaciones(5) = 120,000000
Variaciones (5,2) = 20,000000
Combinaciones(5,2) = 10,000000
Variaciones con repet.(5,2)= 25,000000
Disconnected from the target VM, address: '127.0.0.1:58433', transport: 'socket'
Process finished with exit code 0
Downloads > Depuracion > src > Main
28:1 LF UTF-8 4 spaces
8°C
Mayorm. nublado
Búsqueda
21:24
10/01/2024

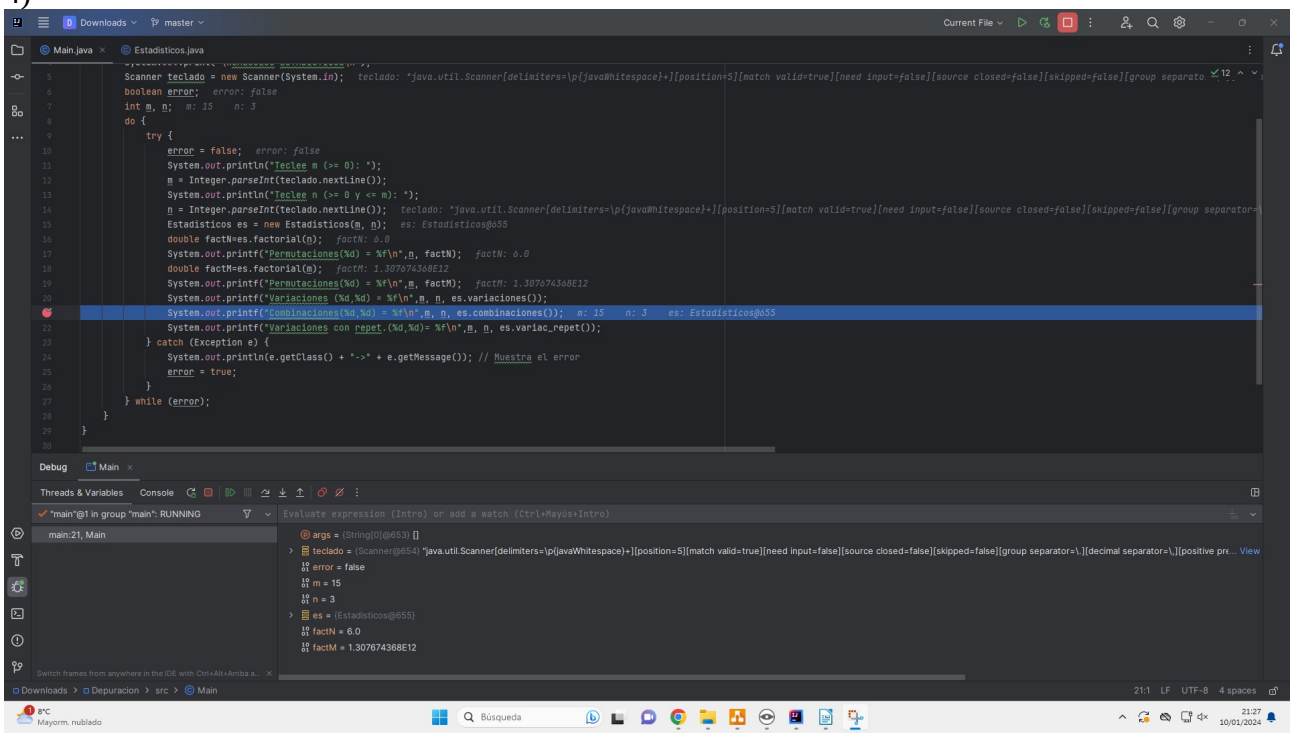
3)

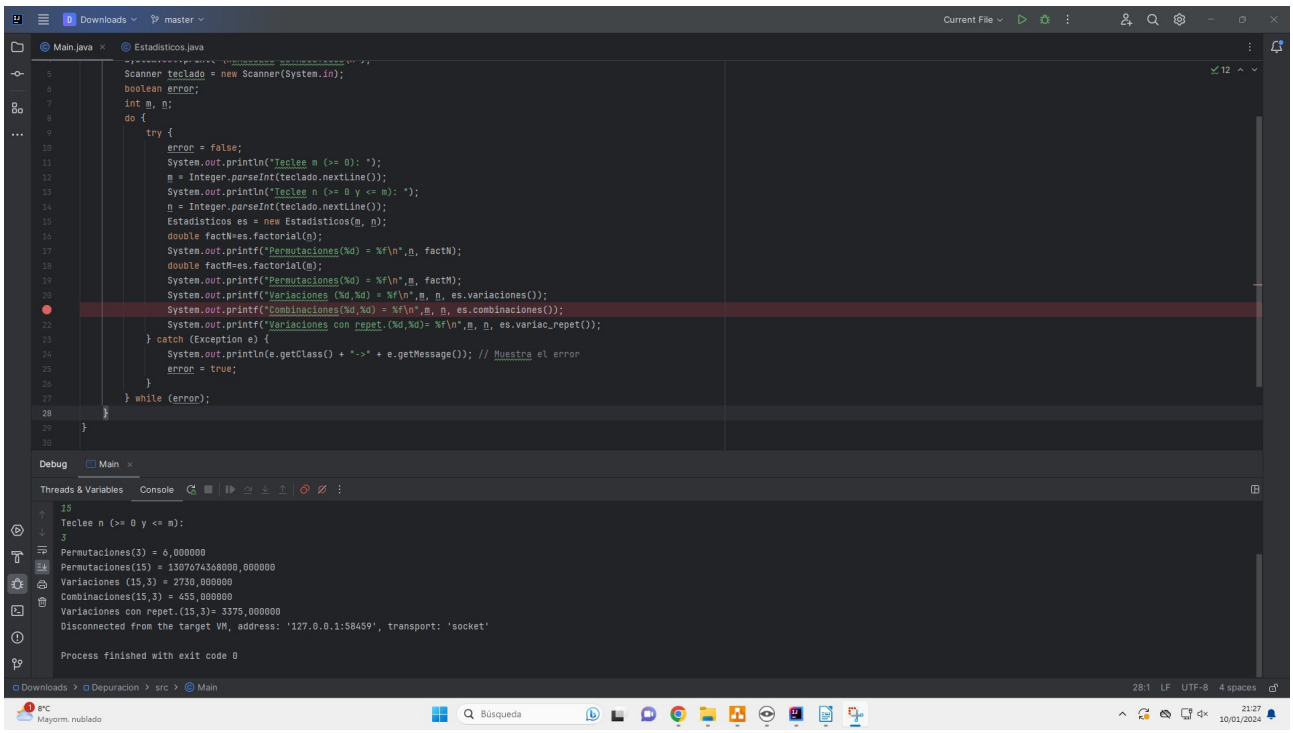

Main.java
Estadisticos.java
Scanner teclado = new Scanner(System.in);
boolean error;
int m, n;
do {
try {
error = false;
System.out.println("Teclee m (>= 0): ");
m = Integer.parseInt(teclado.nextLine());
System.out.println("Teclee n (>= 0 y <= m): ");
n = Integer.parseInt(teclado.nextLine());
Estadisticos es = new Estadisticos(m, n);
double factN=es.factorial(n);
System.out.printf("Permutaciones(%d) = %f\n",n, factN);
double factM=es.factorial(m);
System.out.printf("Permutaciones(%d) = %f\n",m, factN);
System.out.printf("Variaciones (%d,%d) = %f\n",m, n, es.variaciones());
System.out.printf("Combinaciones(%d,%d) = %f\n",m, n, es.combinaciones());
System.out.printf("Variaciones con repet.(%d,%d)= %f\n",m, n, es.variac_repet());
} catch (Exception e) {
System.out.println(e.getClass() + "->" + e.getMessage()); // Muestra el error
error = true;
}
} while (error);
Debug
Main
Threads & Variables
Console
"main"@1 in group "main": RUNNING
Evaluate expression (Intro) or add a watch (Ctrl+MayÚs+Intro)
main:20, Main
args = {String[0]@653} []
teclado = {Scanner@654} "java.util.Scanner[delimiters=\p{javaWhitespace}+][position=4][match valid=true][need input=false][source closed=false][skipped=false][group separator=\,][decimal separator=\,][positive pre... View
error = false
m = 5
n = 2
es = {Estadisticos@655}
factN = 2.0
factM = 120.0
Downloads > Depuracion > src > Main
20:1 LF UTF-8 4 spaces


Main.java
Estadisticos.java
2 usages
public double combinaciones() throws Exception {
double combi = factorial(m) / (factorial(n) * factorial(x m - n));
return combi;
}
/* Cálculo Variaciones de m elementos tomados de n en n */
1 usage
public double variaciones() throws Exception {
double vari = combinaciones() * factorial(n); n: 2
return vari;
}
/* Cálculo Variaciones con repetición de m elementos tomados de n en n */
1 usage
public double variac_repet() throws Exception {
double varirepe = Math.pow(m, n);
return varirepe;
}
}
Debug
Main
Threads & Variables
Console
"main"@1 in group "main": RUNNING
Evaluate expression (Intro) or add a watch (Ctrl+MayÚs+Intro)
variaciones:31, Estadisticos
main:20, Main
this = {Estadisticos@655}
n = 2
Downloads > Depuracion > src > Estadisticos > variaciones
31:1 CRLF UTF-8 4 spaces


Main.java
Estadisticos.java
Scanner teclado = new Scanner(System.in);
boolean error;
int m, n;
do {
try {
error = false;
System.out.println("Teclee m (>= 0): ");
m = Integer.parseInt(teclado.nextLine());
System.out.println("Teclee n (>= 0 y <= m): ");
n = Integer.parseInt(teclado.nextLine());
Estadisticos es = new Estadisticos(m, n);
double factN=es.factorial(n);
System.out.printf("Permutaciones(%d) = %f\n",n, factN);
double factM=es.factorial(m);
System.out.printf("Permutaciones(%d) = %f\n",m, factM);
System.out.printf("Variaciones (%d,%d) = %f\n",m, n, es.variaciones());
System.out.printf("Combinaciones(%d,%d) = %f\n",m, n, es.combinaciones());
System.out.printf("Variaciones con repet.(%d,%d)= %f\n",m, n, es.variac_repet());
} catch (Exception e) {
System.out.println(e.getClass() + "->" + e.getMessage()); // Muestra el error
error = true;
}
} while (error);
}
}
Debug
Main
Threads & Variables
Console
5
Teclee n (>= 0 y <= m):
2
Permutaciones(2) = 2,000000
Permutaciones(5) = 120,000000
Variaciones (5,2) = 20,000000
Combinaciones(5,2) = 10,000000
Variaciones con repet.(5,2)= 25,000000
Disconnected from the target VM, address: '127.0.0.1:58439', transport: 'socket'
Process finished with exit code 0

4)


Main.java
Estadisticos.java
Scanner teclado = new Scanner(System.in);
boolean error;
int m, n;
do {
try {
error = false;
System.out.println("Teclee m (>= 0): ");
m = Integer.parseInt(teclado.nextLine());
System.out.println("Teclee n (>= 0 y <= m): ");
n = Integer.parseInt(teclado.nextLine());
Estadisticos es = new Estadisticos(m, n);
double factN=es.factorial(n);
System.out.printf("Permutaciones(%d) = %f\n",n, factN);
double factM=es.factorial(m);
System.out.printf("Permutaciones(%d) = %f\n",m, factM);
System.out.printf("Variaciones (%d,%d) = %f\n",m, n, es.variaciones());
System.out.printf("Combinaciones(%d,%d) = %f\n",m, n, es.combinaciones());
System.out.printf("Variaciones con repet.(%d,%d)= %f\n",m, n, es.variac_repet());
} catch (Exception e) {
System.out.println(e.getClass() + "->" + e.getMessage()); // Muestra el error
error = true;
}
} while (error);
}
}
Debug
Main
Threads & Variables
Console
"main"@1 in group "main": RUNNING
main:21, Main
args = {String[0]@653} []
teclado = {Scanner@654} "java.util.Scanner[delimiters=\p{javaWhitespace}+][position=5][match valid=true][need input=false][source closed=false][skipped=false][group separator=\,][decimal separator=\,][positive pre... View
error = false
m = 15
n = 3
es = {Estadisticos@655}
factN = 6.0
factM = 1.307674368E12



Andrés Amado Cibreiro 1ºDAM