

HOMEWORK 2 AREM (Heroku: interpreters, communication channels and memory)

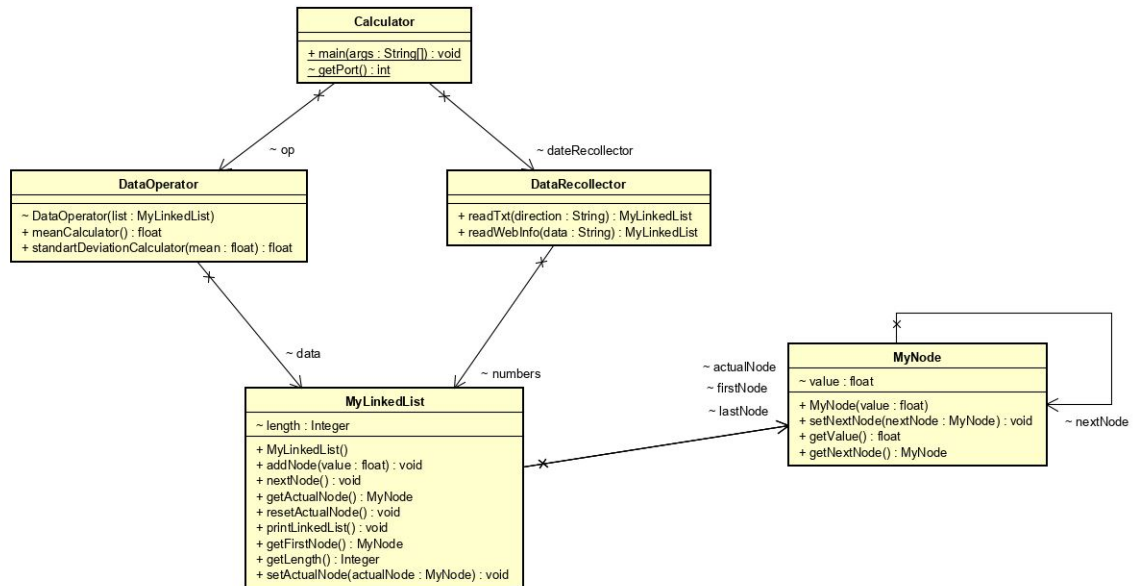
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1 Introduction

Use Maven, HEROKU, GIT, Spark and GITHUB. Write a program to calculate the mean and standard deviation of a set of n real numbers (Web Page).

2 Design



3 Start

Copy the project through git clone in any direction to start working:

```
git clone https://github.com/Juaco9502/Dise-o-de-conceptos-basicos-AREP.git
```

4 Pre-Requisites

- Java jdk 7 or more.
- Maven (Apache Maven)
- Git
- Spark

5 Install

5.1 Run in terminal:

This command works to compile the program:

```
mvn package
```

5.2 Documentation(Optional):

If you want to view the documentation of the application, execute the following command and check the following path: root / target:

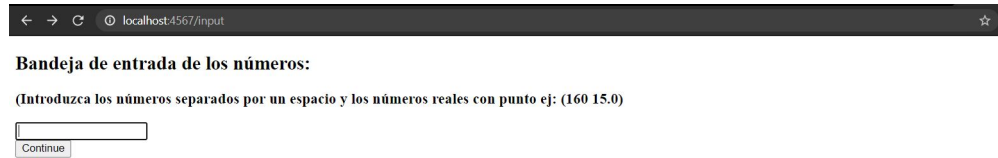
```
mvn javadoc:javadoc
```

5.3 Run:

The following command must be used in the project root folder:

```
java -jar target/SparkWebApp-1.0-SNAPSHOT-jar-with-dependencies.jar
```

```
C:\Windows\System32\cmd.exe - java -jar target/SparkWebApp-1.0-SNAPSHOT-jar-with-dependencies.jar
C:\Users\juaco\Documents\Tarea2>java -jar target/SparkWebApp-1.0-SNAPSHOT-jar-with-dependencies.jar
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.
```



A screenshot of a web browser window. The address bar shows 'localhost:4567/input'. The page title is 'Bandeja de entrada de los números:'. Below the title, there is a text prompt: '(Introduzca los números separados por un espacio y los números reales con punto ej: (160 15.0))'. There is an empty text input field, and below it is a button labeled 'Continue'.

5.4 Server:

Once compiled, the program runs on port 4567, to test it go to this address from your browser:

`http://localhost:4567/input`

6 Test Report

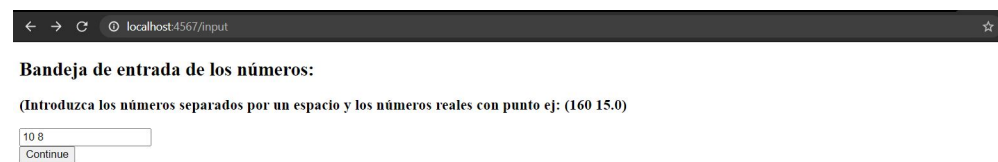
6.1 Test Cases

6.1.1 Test 1

En esta prueba se ingresaron valores enteros.



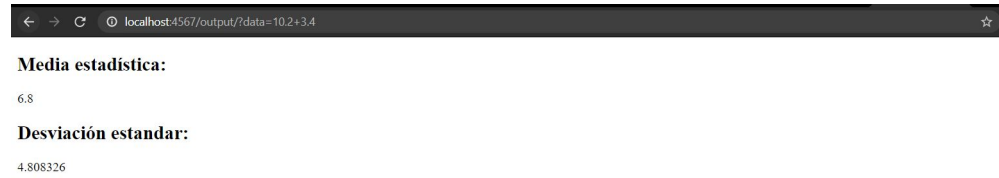
A screenshot of a web browser window. The address bar shows 'localhost:4567/output/?data=10+8'. The page title is 'Media estadística:'. Below the title, the value '9.0' is displayed. Below that, the title 'Desviación estandar:' is shown, followed by the value '1.4142135'.



A screenshot of a web browser window. The address bar shows 'localhost:4567/input'. The page title is 'Bandeja de entrada de los números:'. Below the title, there is a text prompt: '(Introduzca los números separados por un espacio y los números reales con punto ej: (160 15.0))'. The text input field now contains the value '10 8'. Below the input field is a button labeled 'Continue'.

6.1.2 Test 2

En esta prueba se ingresaron valores reales.



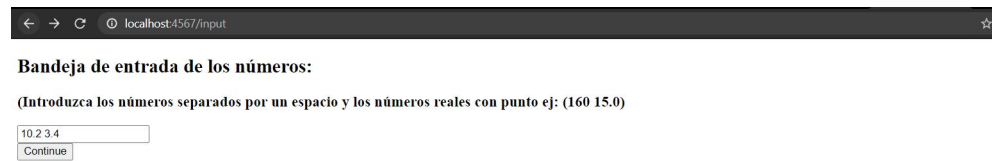
← → ↻ localhost:4567/output/?data=10.2+3.4 ☆

Media estadística:

6.8

Desviación estandar:

4.808326



← → ↻ localhost:4567/input ☆

Bandeja de entrada de los números:

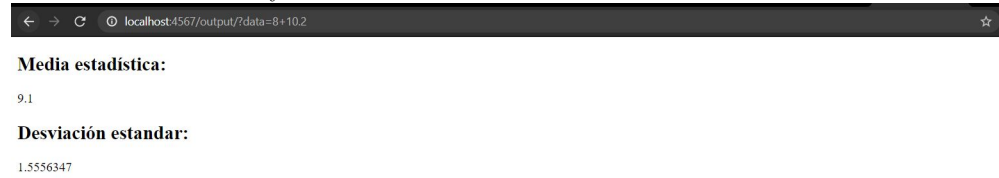
(Introduzca los números separados por un espacio y los números reales con punto ej: (160 15.0))

10 2 3 4

Continue

6.1.3 Test 3

Entrada con valor entero y real.



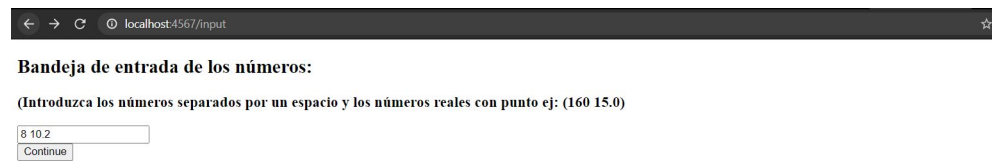
← → ↻ localhost:4567/output/?data=8+10.2 ☆

Media estadística:

9.1

Desviación estandar:

1.5556347



← → ↻ localhost:4567/input ☆

Bandeja de entrada de los números:

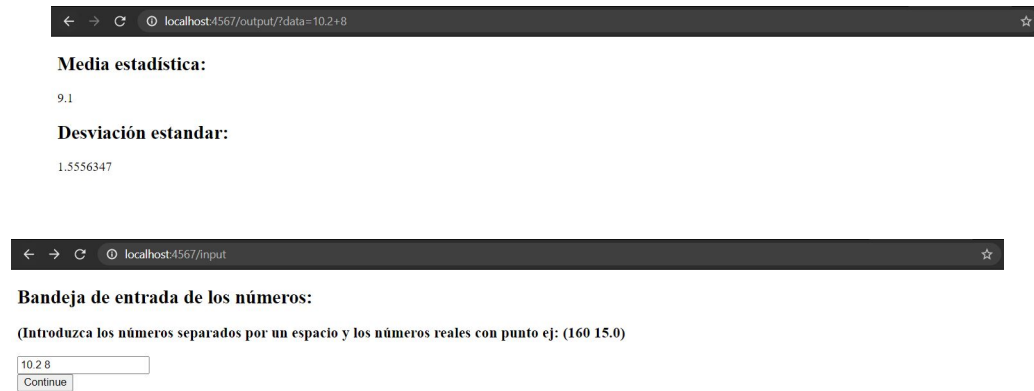
(Introduzca los números separados por un espacio y los números reales con punto ej: (160 15.0))

8 10.2

Continue

6.1.4 Test 4

Entrada con valor real y entero.



The screenshot shows a web browser window with the address bar displaying 'localhost:4567/output/?data=10.2+8'. The page content includes two sections: 'Media estadística:' with the value '9.1' and 'Desviación estandar:' with the value '1.5556347'.

Media estadística:
9.1

Desviación estandar:
1.5556347

The second screenshot shows a web browser window with the address bar displaying 'localhost:4567/input'. The page content includes a heading 'Bandeja de entrada de los números:', a subtext '(Introduzca los números separados por un espacio y los números reales con punto ej: (160 15.0))', a text input field containing '10.2 8', and a 'Continue' button.

Bandeja de entrada de los números:
(Introduzca los números separados por un espacio y los números reales con punto ej: (160 15.0))

10.2 8
Continue

6.2 HEROKU:

Use the following link in the browser:

<https://tarea2-arep.herokuapp.com/input>

7 Pre-Requisites

- Maven - Dependency Management
- JAVA JDK 8 - Building
- JUnit 3.8.1 - Test
- Spark 2.9.1 - Web

8 License

This project is licensed under the GNU General Public License.