

Object Oriented Programming – 2017/2018 – 2nd Semester

Self-evaluation form

| | | |
|----------------------|---------------------------------------|----------------------------|
| Group: _____ | Oral discussion date: _____ | Penalization (days): _____ |
| Number: <u>80872</u> | Name: <u>Carlos Henrique Silva</u> | Expected mark: _____ |
| Number: <u>90900</u> | Name: <u>José Carlos Vieira</u> | Expected mark: _____ |
| Number: <u>90989</u> | Name: <u>Pedro Esperança do Carmo</u> | Expected mark: _____ |
| Number: _____ | Name: _____ | Expected mark: _____ |

Please fill the following form relative to the **implementation** of the project:

| | | |
|--|--|--|
| General aspects: | | |
| How do you classify the UML tool used (identify it)? <u>Visual Paradigm</u> <input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Bad | | |
| Does your application use any external library, besides that provided within JDK? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (which ones?): _____ | | |
| How many packages does your application have? <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> ≥ 3 : <u>3</u> | | |
| How many interfaces does your application have? <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> ≥ 3 : _____ | | |
| Is your application extensible to further developments? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partialy | | |
| Does your application have at least one polymorphic invocation? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (methods?): <u>method <i>action</i> on <i>Event</i> inheriting classes</u> | | |
| How many times the <code>instanceof</code> operator is used in your application (really count them)? <u>0</u> | | |
| In which methods? _____ | | |
| Which XML parser is used to parse the input file? <u>Simple API for XML</u> | | |
| Have external libraries been required? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (which ones?): _____ | | |
| Do you provide a DTD? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No When parsing, is XML validated against it? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |
| Concerning visibility of the fields, check visibilities that are used in the code: <input checked="" type="checkbox"/> Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Package <input type="checkbox"/> Protected | | |
| Concerning visibility of the methods, check visibilities that are used in the code: <input checked="" type="checkbox"/> Public <input checked="" type="checkbox"/> Private <input checked="" type="checkbox"/> Package <input type="checkbox"/> Protected | | |
| Concerning visibility of the classes, check visibilities that are used in the code: <input checked="" type="checkbox"/> Public <input type="checkbox"/> Package | | |
| Does your application contain any static field? <input checked="" type="checkbox"/> Yes (how many?): <u>4</u> <input type="checkbox"/> No | | |
| Does your application contain any static method? <input checked="" type="checkbox"/> Yes (how many?): <u>2</u> <input type="checkbox"/> No | | |
| Does your application contain any user defined exceptions? <input type="checkbox"/> Yes (how many?): _____ <input type="checkbox"/> No | | |
| Simulation problem: | | |
| Data structure of the events (PEC): <u>TreeSet</u> From <code>java.util</code> ? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes | | |
| Is it ordered? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes, with a: <input type="checkbox"/> Comparable <input checked="" type="checkbox"/> Comparator <input type="checkbox"/> Other | | |
| Are all events implemented as described in the project description and the FAQ? | | |
| Death: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> With faults <input type="checkbox"/> Not implemented | | |
| Reproduction: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> With faults <input type="checkbox"/> Not implemented | | |
| Move: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> With faults <input type="checkbox"/> Not implemented | | |
| Are observations implemented as events? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No All 20 at once in the PEC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |
| Data structure of the individuals: <u>LinkedList</u> From <code>java.util</code> ? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes | | |
| Is it ordered? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes, with a: <input type="checkbox"/> Comparable <input type="checkbox"/> Comparator <input type="checkbox"/> Other | | |
| Data structure for the grid: <u>It's a class using multiple ArrayLists</u> From <code>java.util</code> ? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes | | |
| Are epidemics implemented as described in the project description? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> With faults <input type="checkbox"/> No | | |
| Are the best 5 individuals stored in memory? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, they are calculated only when needed <input type="checkbox"/> Other | | |
| To decide which individuals survive epidemics, is a random number generated per each? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |
| Are nonsurvivors cleaned from memory? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (why): _____ | | |
| Is the best path always found when you run the xml five provided in the Project webpage? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |

| |
|---|
| Global evaluation: |
| What was the degree of participation of each element in the group? (% should sum 100%)? Num 80872 : 33.4 % Num 90900 : 33.4 % Num 90989 : 33.3 % Num : % |

In the extent of your perception of the developed work, fill the following tables:

| Project documentation | Yes | No |
|---|-------------------------------------|--------------------------|
| Is the project correctly documented through comments in the source code? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Was the javadoc tool used to build the documentation of the developed packages? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Is it complete, with: | | |
| - overview of packages? | <input type="checkbox"/> | <input type="checkbox"/> |
| - summary of classes, interfaces and exceptions? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| - brief description of classes, interfaces and exceptions? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| - summary of fields, constructors and methods? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| - detail of fields, constructors and methods? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

| Project compilation | Yes | No |
|---|-------------------------------------|--------------------------|
| Does the project compile without errors? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Does the project compile without warnings? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| If the answer is no, are all these warnings unchecked warnings? | <input type="checkbox"/> | <input type="checkbox"/> |

| Running | Yes | No | With faults |
|---|-------------------------------------|-------------------------------------|--------------------------|
| Is the jar file runnable from the shell? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Does the project read correctly the parameters? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Does the project run with the input given in the project webpage? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Does the project generate any supplementary information (status, debug, etc)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Development environment used? ☒ Linux ☐ Windows ☐ Unix ☒ Mac/OS

Java version used: _____

Was the final program tested in the laboratory workstations? ☐ Yes ☐ No

The following table is to be filled by the **professor**:

| Report | Yes/Good | No/Bad | Incomplete/Fair |
|--|--------------------------|--------------------------|--------------------------|
| Cover identifies the course, authors and group number | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Goals of the work are very succinct but clearly stated | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Intelligibility of the document | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Structure of the document | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Clear/concise justification of main data structures used | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| OO solution (extensibility, polymorphism, etc.) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Critical evaluation of the application performance | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Description of functionalities beyond requested ones | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Conclusions | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |