Object Oriented Programming – 2017/2018 – 2nd Semester

Self-evaluation form

Group: 10 Oral discussion date: _____ Penalization (days): ____

Number: 80872 Name: Carlos Henrique Silva Expected mark: _____

Number: 90900 Name: José Carlos Vieira Expected mark: _____

Number: 90989 Name: Pedro Esperança do Carmo 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)? Visual Paradigm ☒ Good ☐ Fair ☐ Bad

Does your application use any external library, besides that provided within JDK?
☒ No ☐ Yes (which ones?):_____

How many packages does your application have? ☐ 1 ☐ 2 ☒ ≥ 3: 3

How many interfaces does your application have? ☐ 1 ☐ 2 ☒ ≥ 3: 3
Is your application extensible to further developments? ☒ Yes ☐ No ☐ Partialy
Does your application have at least one polymorphic invocation?
☐ No ☒ Yes (methods?): method *action* on *Event* inheriting classes
How many times the `instanceof` operator is used in your application (really count them)? 0
In which methods? _____

Which XML parser is used to parse the input file? Simple API for XML
Have external libraries been required? ☒ No ☐ Yes (which ones?):_____
Do you provide a DTD? ☒ Yes ☐ No When parsing, is XML validated against it? ☒ Yes ☐ No

Concerning visibility of the fields, check visibilities that are used in the code:
☒ Public ☒ Private ☐ Package ☐ Protected
Concerning visibility of the methods, check visibilities that are used in the code:
☒ Public ☒ Private ☒ Package ☐ Protected
Concerning visibility of the classes, check visibilities that are used in the code: ☒ Public ☐ Package

Does your application contain any static field? ☒ Yes (how many?): 4 ☐ No
Does your application contain any static method? ☒ Yes (how many?): 2 ☐ No

Does your application contain any user defined exceptions? ☐ Yes (how many?):_____ ☒ No

Simulation problem:

Data structure of the events (PEC): TreeSet From `java.util`? ☐ No ☒ Yes
Is it ordered? ☐ No ☒ Yes, with a: ☐ Comparable ☒ Comparator ☐ Other
Are all events implemented as described in the project description and the FAQ?
Death: ☒ Yes ☐ With faults ☐ Not implemented
Reproduction: ☒ Yes ☐ With faults ☐ Not implemented
Move: ☒ Yes ☐ With faults ☐ Not implemented
Are observations implemented as events? ☒ Yes ☐ No All 20 at once in the PEC? ☒ Yes ☐ No

Data structure of the individuals: LinkedList From `java.util`? ☐ No ☒ Yes
Is it ordered? ☒ No ☐ Yes, with a: ☐ Comparable ☐ Comparator ☐ Other

Data structure for the grid: It's a class using multiple ArrayLists From `java.util`? ☐ No ☒ Yes

Are epidemics implemented as described in the project description? ☒ Yes ☐ With faults ☐ No
Are the best 5 individuals stored in memory? ☐ Yes ☒ No, they are calculated only when needed ☐ Other
To decide which individuals survive epidemics, is a random number generated per each? ☒ Yes ☐ No
Are nonsurvivors cleaned from memory? ☒ Yes ☐ No (why): _____

Is the best path always found when you run the xml five provided in the Project webpage? ☒ Yes ☐ 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?	☒	☐
Was the javadoc tool used to build the documentation of the developed packages?	☒	☐
Is it complete, with:		
- overview of packages?	☐	☒
- summary of classes, interfaces and exceptions?	☒	☐
- brief description of classes, interfaces and exceptions?	☒	☐
- summary of fields, constructors and methods?	☒	☐
- detail of fields, constructors and methods?	☒	☐

Project compilation	Yes	No
Does the project compile without errors?	☒	☐
Does the project compile without warnings?	☒	☐
If the answer is no, are all these warnings unchecked warnings?	☐	☐

Running	Yes	No	With faults
Is the jar file runnable from the shell?	☒	☐	☐
Does the project read correctly the parameters?	☒	☐	☐
Does the project run with the input given in the project webpage?	☒	☐	☐
Does the project generate any supplementary information (status, debug, etc)?	☐	☒	☐

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

Java version used: 8 e 9

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	☐	☐	☐
Goals of the work are very succinct but clearly stated	☐	☐	☐
Intelligibility of the document	☐	☐	☐
Structure of the document	☐	☐	☐
Clear/concise justification of main data structures used	☐	☐	☐
OO solution (extensibility, polymorphism, etc.)	☐	☐	☐
Critical evaluation of the application performance	☐	☐	☐
Description of functionalities beyond requested ones	☐	☐	☐
Conclusions	☐	☐	☐