Object Oriented Programming – 2017/2018 – 2nd Semester
Self-evaluation form

Group: _____14_____ Oral discussion date: _____ Penalization (days): _____

Number: __77028__ Name: __Tiago Santos_____ Expected mark: __15__

Number: __81570__ Name: __José Correia_____ Expected mark: __15__

Number: __81585__ Name: __Pedro Soares_____ Expected mark: __15__

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)? _____ ☐ 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: ___6___

How many interfaces does your application have? ☐ 1 ☒ 2 ☐ ≥ 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_____

How many times the `instanceof` operator is used in your application (really count them)? _____
In which methods? _____

Which XML parser is used to parse the input file? __DOM_____

Have external libraries been required? ☐ No ☒ Yes (which ones?): javax.xml.parsers.*, org.w3c.dom.*, org.xml.sax.*

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?): __3___ ☐ No

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

Does your application contain any user defined exceptions? ☒ Yes (how many?): __1___ ☐ No

Simulation problem:

Data structure of the events (PEC): ___PriorityQueue___ 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: ___Matrix of node objects___ 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): They might be needed to get the best path

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_77028_____:_33_% Num_81570_____:_33_% Num_81585_____:_33_% 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?	x	☐
Was the javadoc tool used to build the documentation of the developed packages?	☐	☐
Is it complete, with:		
- overview of packages?	x	☐
- summary of classes, interfaces and exceptions?	x	☐
- brief description of classes, interfaces and exceptions?	x	☐
- summary of fields, constructors and methods?	x	☐
- detail of fields, constructors and methods?	x	☐

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

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

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

Java version used: __10_____

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	☐	☐	☐