Object Oriented Programming – 2017/2018 – 2nd Semester

Self-evaluation form

Group:	14	Oral discussion date:		Penalization (days):	1
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)? Microsoft Visio ☐ 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)? 0
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 [x] Windows [ ] Unix [ ] Mac/OS

Java version used: 10

Was the final program tested in the laboratory workstations? [x] 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	[ ]	[ ]	[ ]