Object Oriented Programming – 2018/2019 – 2nd Semester

Self-evaluation form

Group: 35 Oral discussion date: _____ Penalization (days): _____

Number: 81225 Name: Duarte Nuno Soares Correia Expected mark: 20

Number: 84085 Name: João Daniel Barata da Silva Pinto Expected mark: 20

Number: 87787 Name: José António Floro de Andrade Cardoso Bastos Expected mark: 20

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 [x] Good [ ] Fair [ ] Bad

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

How many packages does your application have? [ ] 1 [ ] 2 [x] ≥ 3: 3

How many interfaces does your application have? [ ] 1 [ ] 2 [x] ≥ 3: 3
Is your application extensible to further developments? [x] Yes [ ] No [ ] Partialy
Does your application have at least one polymorphic invocation?
[ ] No [x] Yes (methods?): doEvent(), more methods in the interfaces
How many times the `instanceof` operator is used in your application (really count them)? 0
In which methods? Used in equals methods Object.getClass()

Which XML parser is used to parse the input file? sax
Have external libraries been required? [ ] No [x] Yes (which ones?): org.xml.sax
Do you provide a DTD? [x] Yes [ ] No When parsing, is XML validated against it? [x] Yes [ ] No

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

Does your application contain any static field? [x] Yes (how many?): 8 [ ] No
Does your application contain any static method? [x] Yes (how many?): 3 [ ] No

Does your application contain any user defined exceptions? [x] Yes (how many?): 3 [ ] No

Simulation problem:

Data structure of the events (PEC): PriorityQueue<Event> From `java.util`? [ ] No [x] Yes
Is it ordered? [ ] No [x] Yes, with a: [ ] Comparable [x] Comparator [ ] Other
Are all events implemented as described in the project description and the FAQ?
Ant Move: [x] Yes [ ] With faults [ ] Not implemented
Edge evaporation: [x] Yes [ ] With faults [ ] Not implemented
Are observations implemented as events? [x] Yes [ ] No All 20 at once in the PEC? [ ] Yes [x] No

Data structure of the colony: Array<Ant> From `java.util`? [ ] No [ ] Yes
Is it ordered? [ ] No [ ] Yes, with a: [ ] Comparable [ ] Comparator [ ] Other

Data structure of the graph: Graph From `java.util`? [x] No [ ] Yes

Is the best path stored in memory? [x] Yes [ ] No, it is calculated only when needed [ ] Other
Is the best path always found when you run the xml file provided in the Project webpage? [x] Yes [ ] No

Global evaluation:
What was the degree of participation of each element in the group? (% should sum 100%)? Num 81225 : 40 % Num 84085 : 40 % Num 87787 : 20 % 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?	[x]	[ ]
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? [x] Linux [x] Windows [ ] Unix [x] Mac/OS

Java version used: 11.0.2

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	[ ]	[ ]	[ ]