Object Oriented Programming – 2018/2019 – 2nd Semester
Self-evaluation form

Group: **20**   Oral discussion date: _____   Penalization (days): ____

Number: **84005**   Name: **André Meneses**   Expected mark: 20

Number: **84062**   Name: **Gonçalo Cunha**   Expected mark: 20

Number: **84112**   Name: **Leandro Pereira**   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_ ☒ 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: _5_
How many interfaces does your application have? ☐ 1   ☐ 2   ☒ ≥ 3: _6_
Is your application extensible to further developments? ☒ Yes   ☐ No   ☐ Partialy
Does your application have at least one polymorphic invocation?   ☐ No ☒ Yes (methods?): _Todos os métodos de classes abstratas, por exemplo simulateEvent()._
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? _SAX Parser_
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?): _6_   ☐ No
Does your application contain any static method? ☒ Yes (how many?): _3_   ☐ No
Does your application contain any user defined exceptions? ☒ Yes (how many?): _6_   ☐ 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?
Ant Move: ☒ Yes   ☐ With faults   ☐ Not implemented
Edge evaporation: ☒ 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 colony: _Ant[]_   From java.util? ☐ No   ☒ Yes
Is it ordered? ☒ No   ☐ Yes, with a: ☐ Comparable   ☐ Comparator   ☐ Other
Data structure of the graph: _Edge[][] (matriz de adjacências)_   From java.util? ☐ No ☒ Yes
Is the best path stored in memory? ☒ 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? ☒ Yes   ☐ No

Global evaluation:

What was the degree of participation of each element in the group? (% should sum 100%)?
Num_84005____ :100/3 % Num_84062____ : 100/3 % Num__84112__ :100/3 % 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: _11.0.2_____

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	☐	☐	☐