

Object Oriented Programming – 2018/2019 – 2nd Semester

Self-evaluation form

Group: <u>15</u>	Oral discussion date: _____	Penalization (days): _____
Number: <u>81324</u>	Name: <u>Filipa Rente</u>	Expected mark: _____
Number: <u>84061</u>	Name: <u>Gonçalo Valentim</u>	Expected mark: _____
Number: <u>84078</u>	Name: <u>Joana Carmo</u>	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)? <u>Objectaid</u> <input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Bad	
Does your application use any external library, besides that provided within JDK? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (which ones?): <u>org.xml.sax and javax.xml.parsers</u>	
How many packages does your application have? <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> ≥ 3 : <u>7</u>	
How many interfaces does your application have? <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> ≥ 3 : <u>3</u>	
Is your application extensible to further developments? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Partialy	
Does your application have at least one polymorphic invocation? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (methods?): <u>simulateEvent() for events and run() for the simulation</u>	
How many times the instanceof operator is used in your application (really count them)? <u>0</u>	
In which methods? _____	
Which XML parser is used to parse the input file? <u>SAX parser</u>	
Have external libraries been required? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (which ones?): <u>org.xml.sax and javax.xml.parsers</u>	
Do you provide a DTD? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No When parsing, is XML validated against it? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Concerning visibility of the fields, check visibilities that are used in the code: <input type="checkbox"/> Public <input checked="" type="checkbox"/> Private <input checked="" type="checkbox"/> Package <input checked="" type="checkbox"/> Protected	
Concerning visibility of the methods, check visibilities that are used in the code: <input checked="" type="checkbox"/> Public <input checked="" type="checkbox"/> Private <input checked="" type="checkbox"/> Package <input checked="" type="checkbox"/> Protected	
Concerning visibility of the classes, check visibilities that are used in the code: <input checked="" type="checkbox"/> Public <input checked="" type="checkbox"/> Package	
Does your application contain any static field? <input checked="" type="checkbox"/> Yes (how many?): <u>12</u> <input type="checkbox"/> No	
Does your application contain any static method? <input checked="" type="checkbox"/> Yes (how many?): <u>20</u> <input type="checkbox"/> No	
Does your application contain any user defined exceptions? <input type="checkbox"/> Yes (how many?): _____ <input checked="" type="checkbox"/> No	

Simulation problem:	
Data structure of the events (PEC): <u>Priority queue of Event objects</u> From java.util? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	
Is it ordered? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes, with a: <input type="checkbox"/> Comparable <input checked="" type="checkbox"/> Comparator <input type="checkbox"/> Other	
Are all events implemented as described in the project description and the FAQ?	
Ant Move: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> With faults <input type="checkbox"/> Not implemented	
Edge evaporation: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> With faults <input type="checkbox"/> Not implemented	
Are observations implemented as events? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No All 20 at once in the PEC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Data structure of the colony: <u>Vector of Ant objects</u> From java.util? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
Is it ordered? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes, with a: <input type="checkbox"/> Comparable <input type="checkbox"/> Comparator <input type="checkbox"/> Other	
Data structure of the graph: <u>Vector of Node objects*</u> From java.util? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	
Is the best path stored in memory? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No, it is calculated only when needed <input type="checkbox"/> Other	
Is the best path always found when you run the xml file provided in the Project webpage? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

*Each node contains a list of adjacent edges, the linked list of edges in the Node structure is from java.util library.

Global evaluation:			
What was the degree of participation of each element in the group? (% should sum 100%)?			
Num_____:	33.3 %	Num_____:	33.3 %
Num_____:	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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Was the javadoc tool used to build the documentation of the developed packages?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is it complete, with:		
- overview of packages?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- summary of classes, interfaces and exceptions?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- brief description of classes, interfaces and exceptions?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- summary of fields, constructors and methods?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- detail of fields, constructors and methods?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Project compilation	Yes	No
Does the project compile without errors?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Does the project compile without warnings?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If the answer is no, are all these warnings unchecked warnings?	<input type="checkbox"/>	<input type="checkbox"/>

Running	Yes	No	With faults
Is the jar file runnable from the shell?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Does the project read correctly the parameters?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Does the project run with the input given in the project webpage?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Does the project generate any supplementary information (status, debug, etc)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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