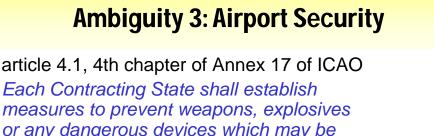


Ambiguity 1: « sorted »

- *« the list of names is sorted »* looks like a precise specification.
- · Can you use the Unix sort command?
- How do you sort uppercases and lowercases?
- E.g. « Dupont » and « du Pont »
- What about special characters?
 « é » vs « e », « ç » vs « c »
- « the list of names is sorted in alphabetical order » is more precise!
- Have a look at the Wikipedia page on « Alphabetical Order » for more examples...
 Yves.Ledru@imag.fr 2013
 Page



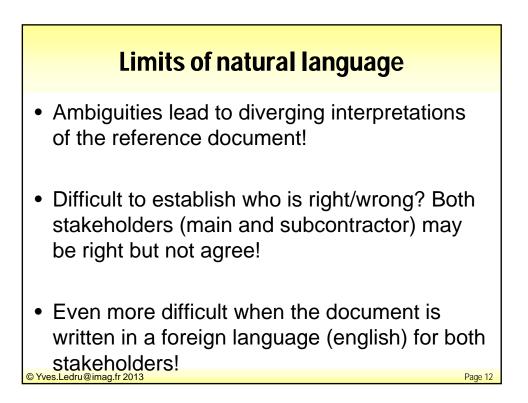
Page 11

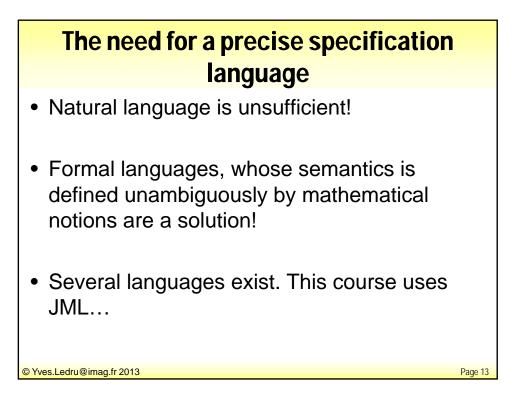


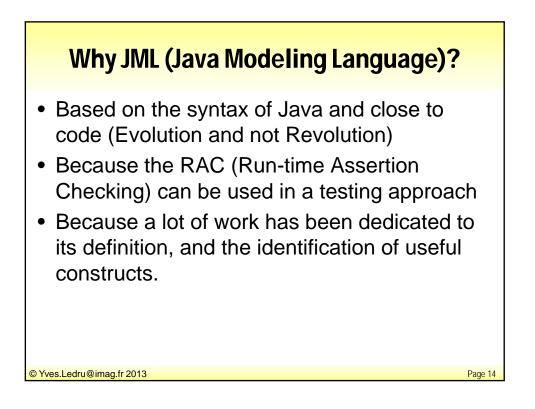
or any dangerous devices which may be used to commit an act of unlawful interference, the carriage or bearing of which is not authorized, from being introduced, by any means whatsoever, on board an aircraft engaged in international civil aviation.

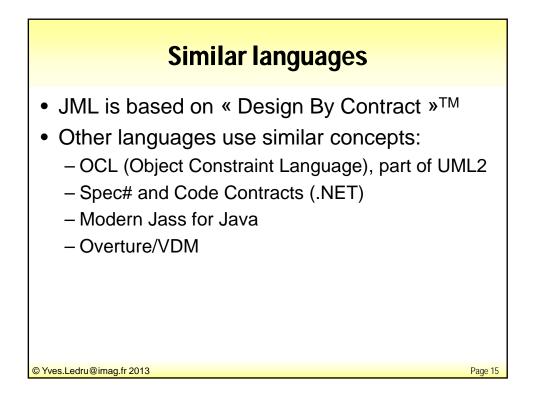
• This sentence is ambiguous ! Are all weapons not authorized? Are there weapons that are authorized?

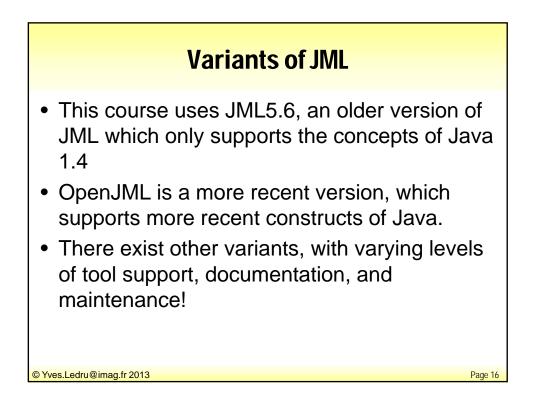
© Yves.Ledru@imag.fr 2013

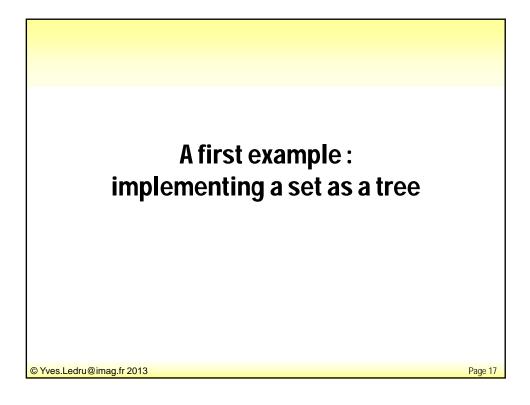


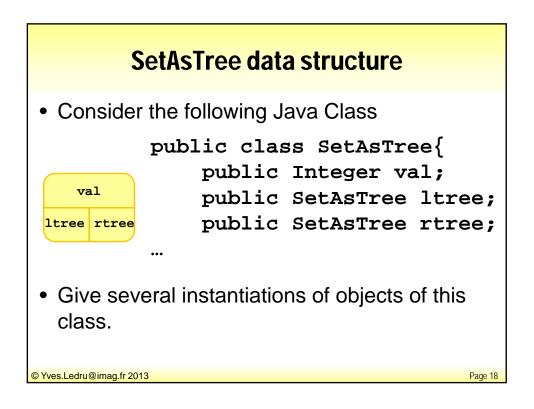


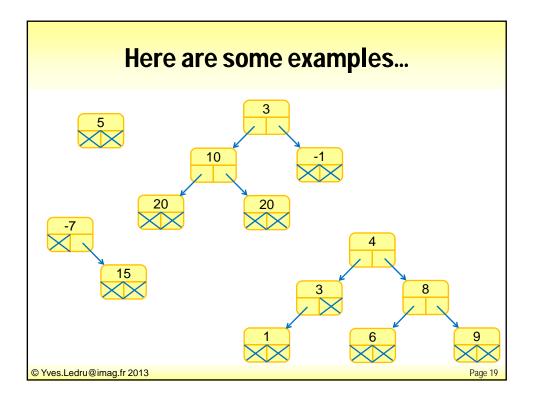


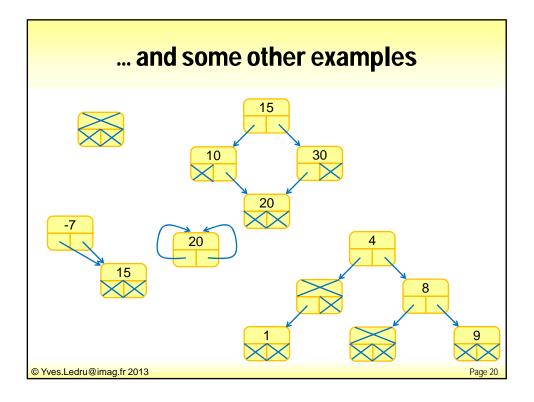


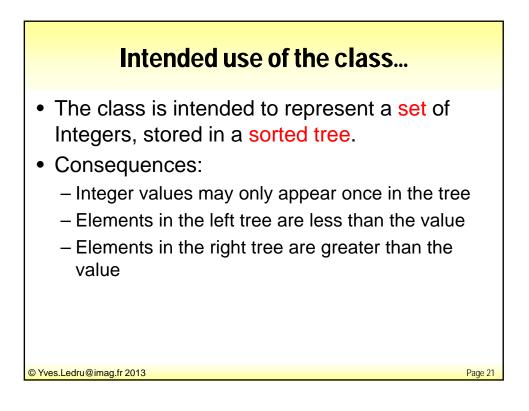


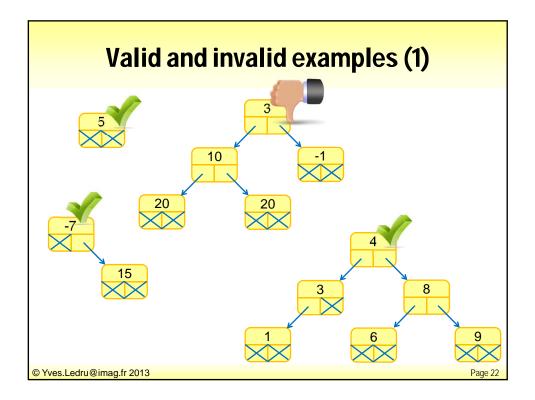


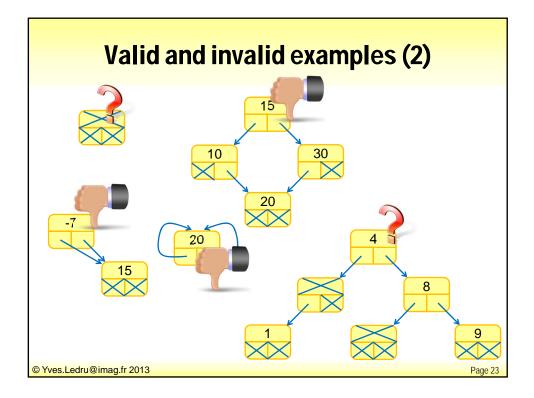


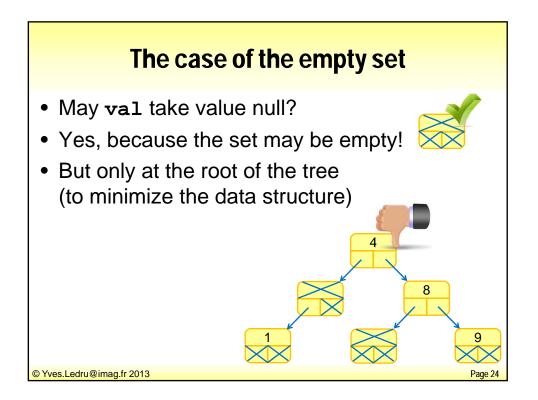


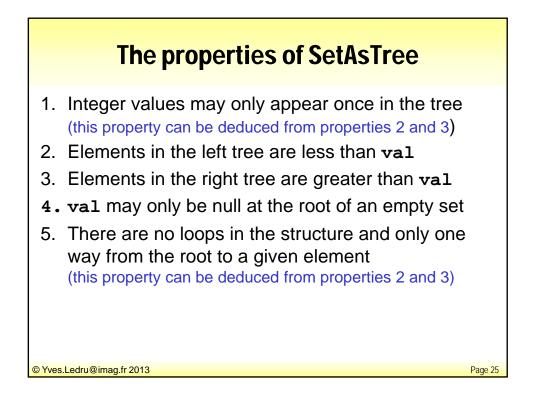


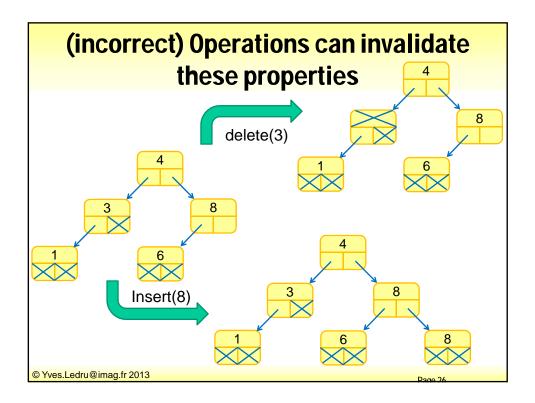












How can we make sure that these 5 properties will always be fulfilled?

- It should be documented somewhere (otherwise, it will be rapidly forgotten and maintenance operations might introduce defects in operations).
- It should be covered by regression tests:
 - But you need to express an appropriate « assert » for each test
- It may be expressed in JML and checked at run-time!

© Yves.Ledru@imag.fr 2013

Page 27