## Discussion SE Exercise 1 Dustin Wüest and Cédric Jeanneret Requirements Engineering Research Group Department of Informatics University of Zurich

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## **SE Exercise 1 Results**



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## Frequent Problems Ex. 3

Replies to operation calls go back to the calling lifeline (and nowhere else).

(Creation of objects is usually depicted this way, to highlight the fact they have been created during the interaction.)



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You were not asked explicitly to apply what you were taught during the first lecture, but you should have. It makes your code more understandable, especially for the correctors. Especially:

- Use meaningful and non-ambiguous names (bad example: maxValue for an attribute and valueMax for a variable)
- Do not write numerical values in the code, but factor them as a variable/constant (e.g. the size of the environment)
- Make your control structure visible with indentation

10/12/2008 19 University of Zurich Part II – Code Improvement **Ex 1: Optimization** Memoization: + querying an item is faster (and it happens often in JClusim) - An item uses more memory - The creation of an item takes more time (-) If not implemented « correctly », the code of the constructor is scattered with optimization code and the public interface of an item may change Lazy-initialisation has another purpose: spare memory by

delaying the creation of a (relatively) large object until it is needed.









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