

Serie 3 - Understanding Classes and Metaclasses

Exercise 1

The customer of the address book has asked for new features: The address book should provide:

- search by the phone number's area code
- search by city. For example find people living in Bern.
- search by family name.

Questions:

- How many classes did you use?
- Which is the responsibility of each class?
- Did you have to change the design of your application due to the new requirements? if so, how?

Note: This exercise involves Chapters 3 to 9 of *Pharo by Example* book. Under no circumstances we expect the student to read all these chapters. On the other hand, we recommend that these chapters are used as reference material while developing this simple system.

Exercise 2

What is the value of the expression `self class == super class` contained in a method `foo` in a class `A` which has `Object` as superclass? Explain your answer.

Exercise 3

What is the value of the expression `Point new class superclass class class`? Explain your answer.

Please hand in by email to ressia@iam.unibe.ch the solutions before the beginning of the next exercise session. The email should have a single attachment (named `Assignment[#]-Group[#]`) with all the required files. The source code should be provided as a single zip file. The questions should be answered in a text document. Your solutions should be clearly marked with names and immatriculation numbers of the team members.