

## Problem solving methods



### Objectives

*Using Python to solve complex problems*

- Develop abstract data types
- Develop layered applications
- Implement backtracking algorithms



### Requirements

1. Consider a list of persons identified by name and age.
  - a. Form groups of  $k$  persons having a different name
  - b. Form groups of  $k$  persons with the same name but different age
2. Extend the application from the previous seminar in order to:
  - a. Form groups of  $k$  members with same last name but different first name
  - b. Form groups of  $k$  members from the same group but different age