

Complex problems: search, sort



Objectives

Using Python to solve complex problems

- Develop abstract data types
- Develop layered applications
- Implement search and sort methods



Requirements

Consider a sport club with several sport groups (identified by name of group, sport name, list of members) and several members (identified by id, first name, last name and age).

1. Implement CRUD operations for sport groups and members
2. Sort operations:
 - a. Sort all members by last name
 - b. Sort members in a given group by their age
 - c. Sort groups by the number of members with last name containing a given string
3. Search operations:
 - a. Identify groups that have members with a given first name
 - b. Identify members from a given group with age under a given value