

Development Exercises – L2

Goal: The target of these exercises is to enable the student to practice and master programming skills during the course.

Instructions: You are required to submit some programming assignments. However, it is STRONGLY recommended that you complete all of them. More practice, more mastery. Required exercises are denoted with **.

Programming Exercise	Description	Test Cases
10 (myPowerList)	Create a class called myPowerList, implement methods for <ul style="list-style-type: none">- Adding items- Removing the n-th item	
11 (myPowerList)	Add a method in myPowerList to return the sorted list [Do not use list.sort, implement the algorithm iterating in the list]	
12 (myPowerList)	Add a method in myPowerList to merge another list with the current list <ul style="list-style-type: none">- Lmerge (merge the list as prefix)- Rmerge (merge the list as suffix)	
13 (myPowerList)	Add a method in myPowerList to save the current list as a text file <ul style="list-style-type: none">- saveToTextFile(filename)	
14** (myPowerList)	Add a method in myPowerList to read values for a List from a Text file <ul style="list-style-type: none">- readFromTextFile(filename)	
15**	Create a class to manage a directory of users containing data Name Address Phone Email The class must be able to: <ul style="list-style-type: none">1- Creation of new record2- Save all records in a file3- Load records from a file4- Search and get data from a given record	