

Tutorial # 7

Important: This tutorial has an online part, which you should complete on LMS (tutorial section). The deadline for online task is Monday 8 November at 8:00 A.M

Problem 1

1. Write the recursive method **search** member of the class **LinkedList**. That searches for an element **e** and return true if found. False otherwise. **Don't use auxiliary data structures and don't call any of the LinkedList methods.**
2. Write the static recursive method **SearchList**. That search for an element **e** in a List **l** and return true if found. False otherwise. **Don't use auxiliary data structures.**

Problem 2

1. Write the recursive static method **CopyStack**, that takes two Stacks **s1** and **s2** and copies all the elements in **s1** into **s2** in the same order. **Don't use auxiliary data structures. s1 should not change at the end of the method.**
2. Write the recursive static method **SearchStack**, that takes a Stack **s** and an element **e** and search for the element **e** and return true if found. False otherwise. **Don't use auxiliary data structures. s should not change at the end of the method.**