

## Data structures and Algorithms Laboratory

17-01-2024

1. A majority element in an array, A, of size n is an element that appears more than  $n/2$  times. For example, the array 3, 3, 4, 2, 4, 4, 2, 4, 4 has a majority element (4), whereas the array 3, 3, 4, 2, 4, 4, 2, 4 does not. Write a program to compute the majority element in the given array. If there is no majority element, your program should indicate this.
2. Write a function which takes two binary trees and checks whether they are similar. "Similar" means: the position of the nodes and structure of the trees should be same. Write a main function to test.
3. Write a function to delete a given element from a binary search tree. Write a main function to test.