

HW #2

Homework exercises should be done individually (You should write the solution by yourself). Solutions must be prepared in the Python programming language and submitted electronically as .py file before **11.59 pm on Sunday, November 14**. No credit will be given to solutions obtained verbatim from the Internet or other sources. **To get full credit for each question, you need to provide a brief explanation of your codes and the efficiency analysis with comments.**

2. A celebrity among a group of n people is a person who knows nobody but is known by everybody else. Design a decrease-and-conquer algorithm that identifies a celebrity among n people, or outputs "no celebrity identified" if there is no such person, by only asking the question "Do you know him/her?" to people.