

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.**

4. Devise an $O(n)$ -time algorithm that takes an array of length n , which consists of the letters B, M, and W, and sorts them in a way that all the Bs come before all the Ms, and all the Ms come before all the Ws.