

Homework 3: Due 11:59pm Thursday, April 3, 2025

(Problem 5 is required for graduate students. Undergraduate students who solves Problem 5 can earn at most 3 points extra credit.)

(Please submit your code to Gradescope even your code does not pass the test on Leetcode.)

Solve the following problems on Leetcode (<https://www.leetcode.com/>):

Problem 1: (25 points)

169. Majority Element (<https://leetcode.com/problems/majority-element/>)

Problem 2: (25 points)

888. Fair Candy Swap (<https://leetcode.com/problems/fair-candy-swap/>)

Problem 3: (25 points)

162. Find Peak Element (<https://leetcode.com/problems/find-peak-element/>)

Problem 4: (25 points)

493. Reverse Pairs (<https://leetcode.com/problems/reverse-pairs/>)

Problem 5: (25 points)

53. Maximum Subarray (<https://leetcode.com/problems/maximum-subarray/>)