Data Structures and Algorithms - Assignment 2

- 1. Write a linear search algorithm to return index of last occurance of key.
- 2. Create array of employees and search employee by name
- 3. Implement binary search algorithm if array is sorted in descending order.
- 4. Implement linear search algorithm to find the nth occurrence of the given element. If nth occurrence is not found, return -1.
- 5. to find rank of an element in a stream of integers. rank: rank of a given integer "x", in stream is "total no. of ele's less than or equal to x (including x).

Input: { 10, 20, 15, 3, 4, 4, 1 }Ouput: Rank of 4 is: 4

Optional

- 6. Write all possibilites to check palindrome. Also do time and space complexity analysis. (only paper work)
- 7. https://leetcode.com/problems/valid-parentheses
- 8. https://leetcode.com/problems/remove-all-adjacent-duplicates-in-string
- 9. https://leetcode.com/problems/missing-number
- 10. https://leetcode.com/problems/search-insert-position