

Hashtables Assignment

- 1. Implement Maps using Hashtables
- 2. Write an efficient function for extracting unique characters from a given string.
- 3. You are given with an array of integer contain number in no particular order. Write a program find the longest possible sequence of consecutive numbers using the numbers from the array. Best solution takes O(n) time. □E.g.

- 4. Given an array find the number which comes with maximum frequency. It must work in O(n) time complexity.
 - a. For a sorted array
 - b. For an unsorted array
- 5. Given an array find all pairs of elements whose difference is equal to a given number k. i.e. find number of possible combinations of i & j, s.t. a[i] -a[j] = k