

# CSC 326 Data Structures

## Exercise – Hashing Tables

### 1. Sort Characters by Frequency

Given a string `s`, sort it in decreasing order based on the **frequency** of the characters. the **frequency** of a character is the number of times it appears in the string.

-- Example --

Input: `s = "tree"`

Output: `"eert"`

Explanation: 'e' appears twice while 'r' and 't' both appear once.

So 'e' must appear before both 'r' and 't'.

### 2. Group Anagrams

Given an array of strings `strs` (consist of lowercase English letters), group the **anagrams** together. You can return the answer in **any order**.

An **Anagram** is a word or phrase formed by rearranging the letters of a different word or phrase, typically using all the original letters exactly once.

-- Example --

Input: `strs = ["eat","tea","tan","ate","nat","bat"]`

Output: `[["bat"],["nat","tan"],["ate","eat","tea"]]`