

# Comp 352 Winter 2019

## Tutorial 7

March 20, 2019



# Outline

## 1. Sorting



# Announcement

## 1. Assignment



# Sorting

- Selection Sort
- Insertion Sort
- Quick Sort
- Merge Sort

## Summary

	Worst case	Average case	Best case	Space
Selection	$O(n^2)$	$O(n^2)$	$O(n^2)$	$O(1)$
Insertion	$O(n^2)$	$O(n^2)$	$O(n)$	$O(1)$
Quick	$O(n^2)$	$O(n \log n)$	$O(n \log n)$	$O(1)$
Merge	$O(n \log n)$	$O(n \log n)$	$O(n \log n)$	$O(n)$
Heap	$O(n \log n)$	$O(n \log n)$	$O(n \log n)$	$O(1)$