

CSE 373: Section 8

Sorting

November 15th

Radix Sort

Use radix sort to sort the following elements, show each pass.

['a', 'get', 'zen', 'ah', 'row', 'rat', 'tie']

Interrupting sorts

The following arrays have been interrupted in the middle of a sorting algorithm. Use your knowledge of comparison based sorting to determine which algorithm was being used on each array. Each of the following will be present exactly once: Heap Sort, Insertion Sort, Selection Sort, Merge Sort

Array:

Sort Used:

-5	2	19	53	44	91	87	35
----	---	----	----	----	----	----	----

14	42	17	72	12	10	5	1
----	----	----	----	----	----	---	---

29	35	44	114	37	30	28	46
----	----	----	-----	----	----	----	----

6	10	3	50	15	60	1	34
---	----	---	----	----	----	---	----

Graph Introduction

Use this graph and help from the TA to introduce our next topic: graphs.

- Identify Vertices and Edges. $G(V,E)$
- Discuss directed vs. undirected graphs
- Discuss weights
- What sort of information could this graph represent?

