

12/11/2025

# Sorting Competition Presentations

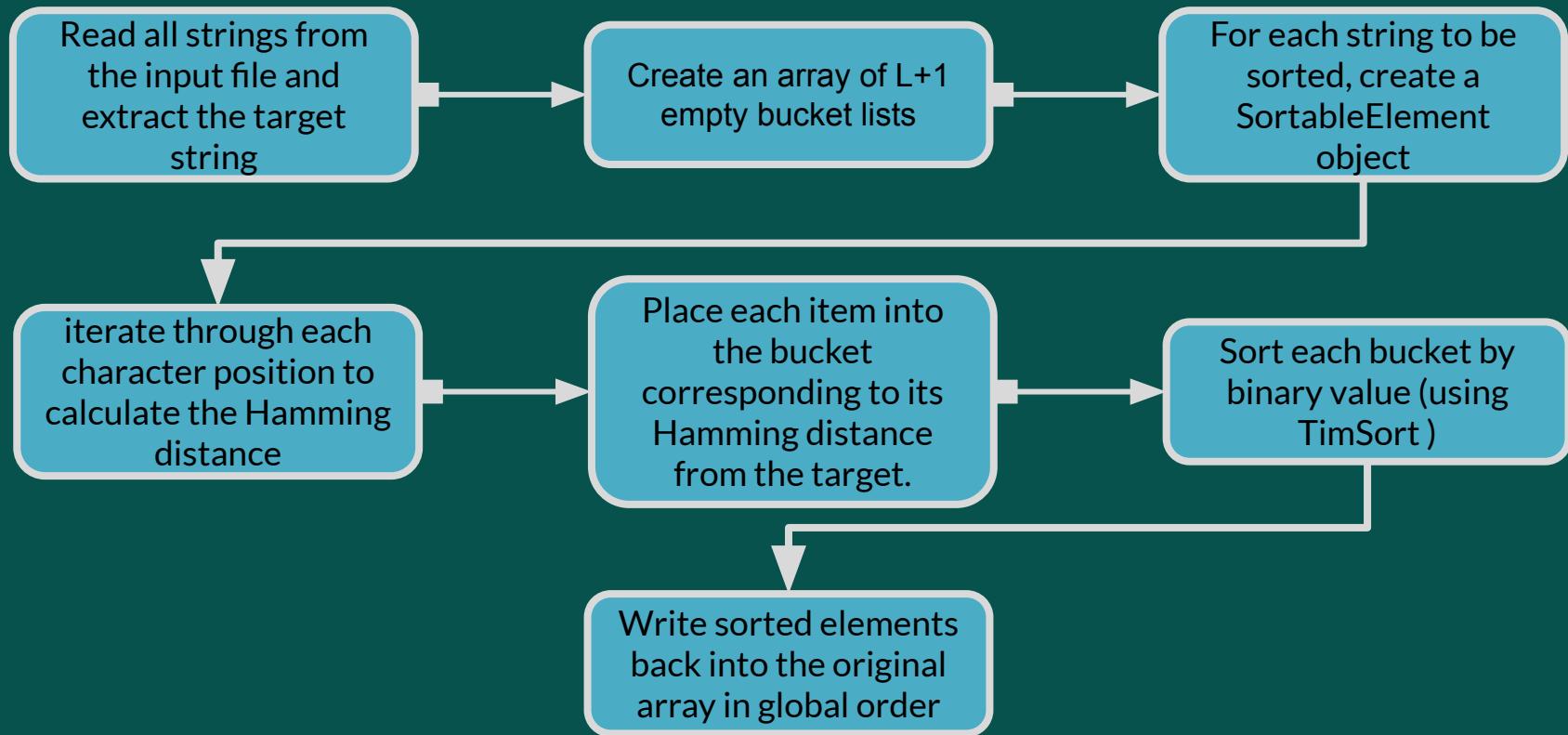
## Group 10

Code from: Emma Sax  
Presented by: George Savvas

# General Information:

- 1st place
- Sum of median time is 304.0ms
  - 252, 255, 252, Median: 252.0
  - 52, 42, 55, Median: 52.0
- Sorted correctly (no correctness issues)
- Average runtime of  $O(n*L)$   
(if the strings are evenly distributed in the buckets)
- Memory of  $O(n*L)$

# How It Works:



# New Data Structures

Buckets Array -

```
`ArrayList<SortableElement>[] buckets`
```

`SortableElement` Wrapper Objects

Target Character Array -

```
`char[] targetChars`
```