

12/11/2025

Sorting Competition Presentations

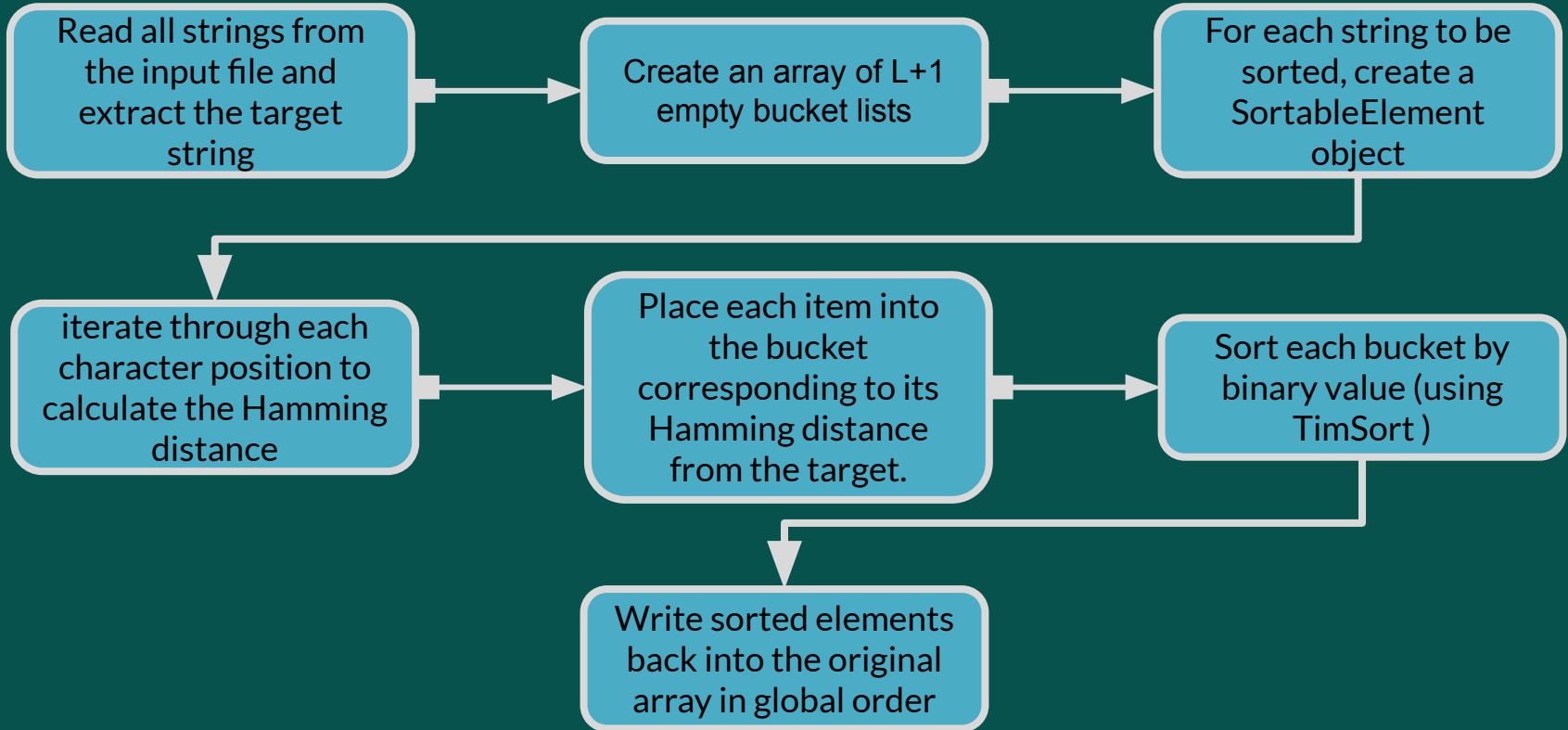
Group 10

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`
```