Group 3: 2015 sorting comp

Isaac k && Mitch F

Quicksort

- Times:
  - small data - 712ms
  - large data - 2899ms
- Quicksort
- Java's string compareTo()

Process

x % 10 =0	x % 10 =1	x % 10 =2	x % 10 =3	x % 10 =4	x % 10 =5	x % 10 =6	x % 10 =7	x % 10 =8	x % 10 =9

- Bucket system: Data put, as strings, into Array of ArrayList
- Each ArrayList is sorted using quick sort
  - Pivot as median of 3
- ArrayLists emptied back into the initial Array

Analysis

- Worst case θ(n^2)
- Extra memory - memory taken up by Array of ArrayLists

What could've changed?

- A lot
- Bucket system terrible
- Overall could've been better