

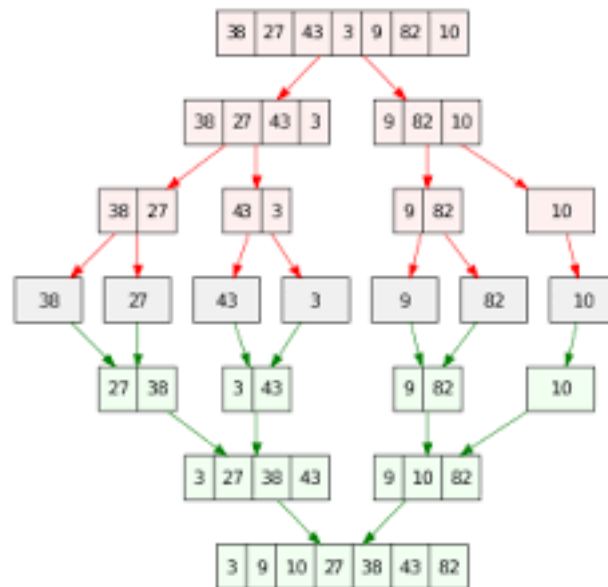
APCS Final Project: Visual Sorting

Aditya Pahuja, period 7

June 5, 2023

1 Description

The goal is to have a program that visualizes sorting algorithms: for example, one of the animations I would create would go through this process for merge sort.



2 Current Functionalities

- A `ListElement` class whose objects toggle between displaying `value` and displaying a bar whose length is related to `value`. (The displaying itself is not done yet)
- A `Sorter` class which is a template for the actual sorting classes.
- A `BubbleSort` subclass which handles bubble sort.
- Random array generation using `java.util.Collections`.
- Figured out how to draw the `ListElements` neatly.
- Bubble sort! Color! Yay!

3 Next Steps

- More sorting algorithms
- Animations
- User interaction

The animations in particular are really, really annoying because Processing updates the screen after method calls are all done, as opposed to during a method call.

4 UML Diagram

