Report

My project is a simple but useful application to dynamically show how sorting algorithms work and how Queue and Stack work.

When you run the program, there is a main menu for you to choose from, to select which visualization you want to see.

Here are some points I want to mention:

1. I did not have directory structure at first and all the classes were in the source directory. Later I constructed a structure for the classes to make them clearer and more compact.

2. I created a stylesheet to separate the css from the logic to make the main part of program focus on the logic. Only very few places still have styles and that is because I deliberately want to keep two ways of adding styles in my program.

3. My application is not too complex so I made every effort to polish it. I tried to cover as more facilities (e.g. paint some simple pictures) as I could and improve user experience by beautifying the interface and adding interesting sound effects.

4. Through the project, I feel the layout is the key and finding the proper library facility is the most difficult thing when getting to grips with graphics.

Some other explanations:

I used the IDE IntelliJ IDEA to develop my project.

Static pictures are all in format ".png" and dynamic pictures are in format ".gif". Pictures were downloaded from Google image.

".mp3"s were downloaded from https://www.zapsplat.com/