Java GUI for Analysis of the following sorting Algorithms:

* Insertion Sort
* Selection Sort
* Bubble Sort
* Merge Sort
* Counting Sort
* Quick Sort
* Comb Sort
* Cycle Sort

1) Once launched, a frame with the name “Sorting Algorithms” will appear and fill the screen. This frame includes a “Start” Button which the user can click on in order to receive the buttons which allows them to choose between which sorting algorithms previously cited they want to learn.

2) By clicking on the button holding the name of the sorting algorithm the user wants to learn, an explanation of the algorithm will show, along with a text field, in which the user can write a bunch of random numbers. If the text field is left empty, an error message will pop up after pressing the “Sort” button.

3) After clicking on “Sort” button, the numbers entered on the text field will appear as a sorted list on the screen, and the steps the algorithm took to sort the list, separated with an arrow in order to make every step clear and easy to understand, located on top of the text field.

*Small helpful details:*

* You can switch between sorting algorithms on the spot, no need to close the frame and launch the GUI again.
* Changing between sorting algorithms will not erase the list that the user has written in the text field.