# Sorting Algorithm Visualizer

DATA STRUCTURES & ALGORITHMS

# Introduction:

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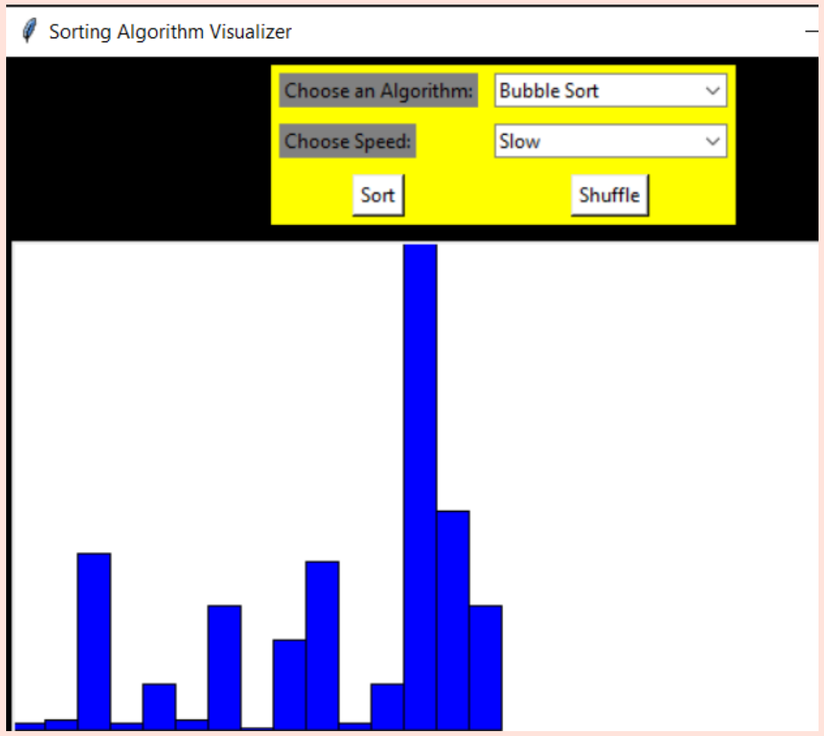
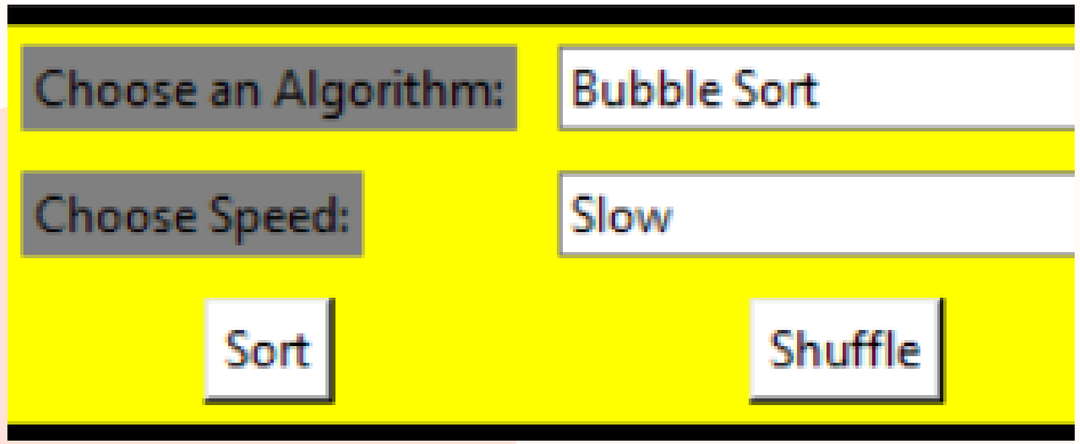



Sorting is the process of arranging data into meaningful order so that you can analyze it more effectively. We have learnt sorting algorithms like Bubble sort, Merge sort etc. But it has been a problem that many people are unable to understand without the visualization of the program and so this is where our sorting visualizer can be useful. Our program works on the following algorithms: Bubble sort, Merge sort, Selection sort, Insertion Sort, Quick sort & Bogo sort.

01

## STEP 1

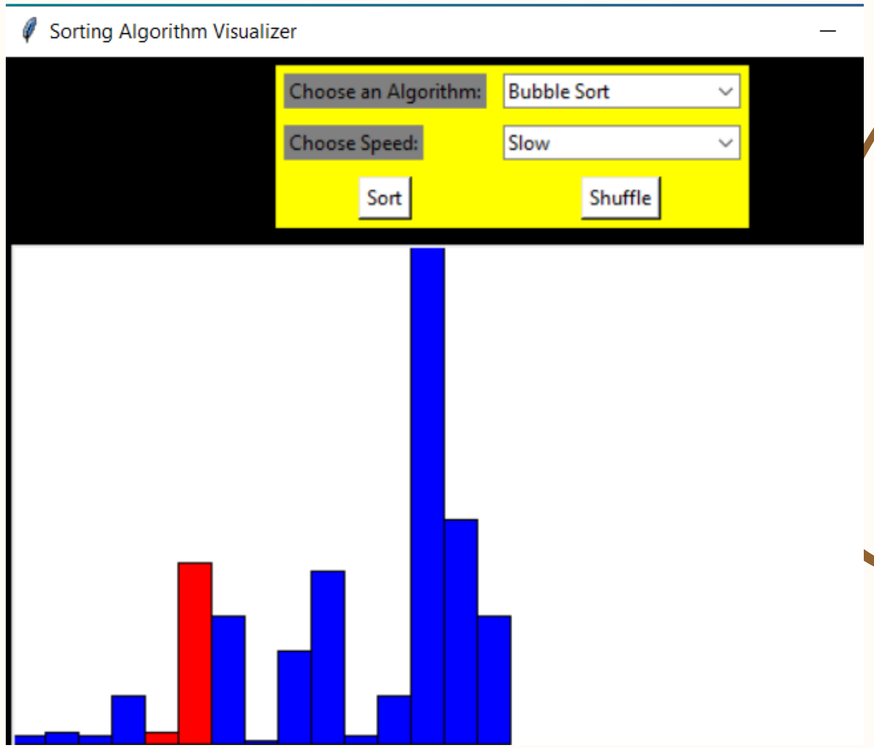
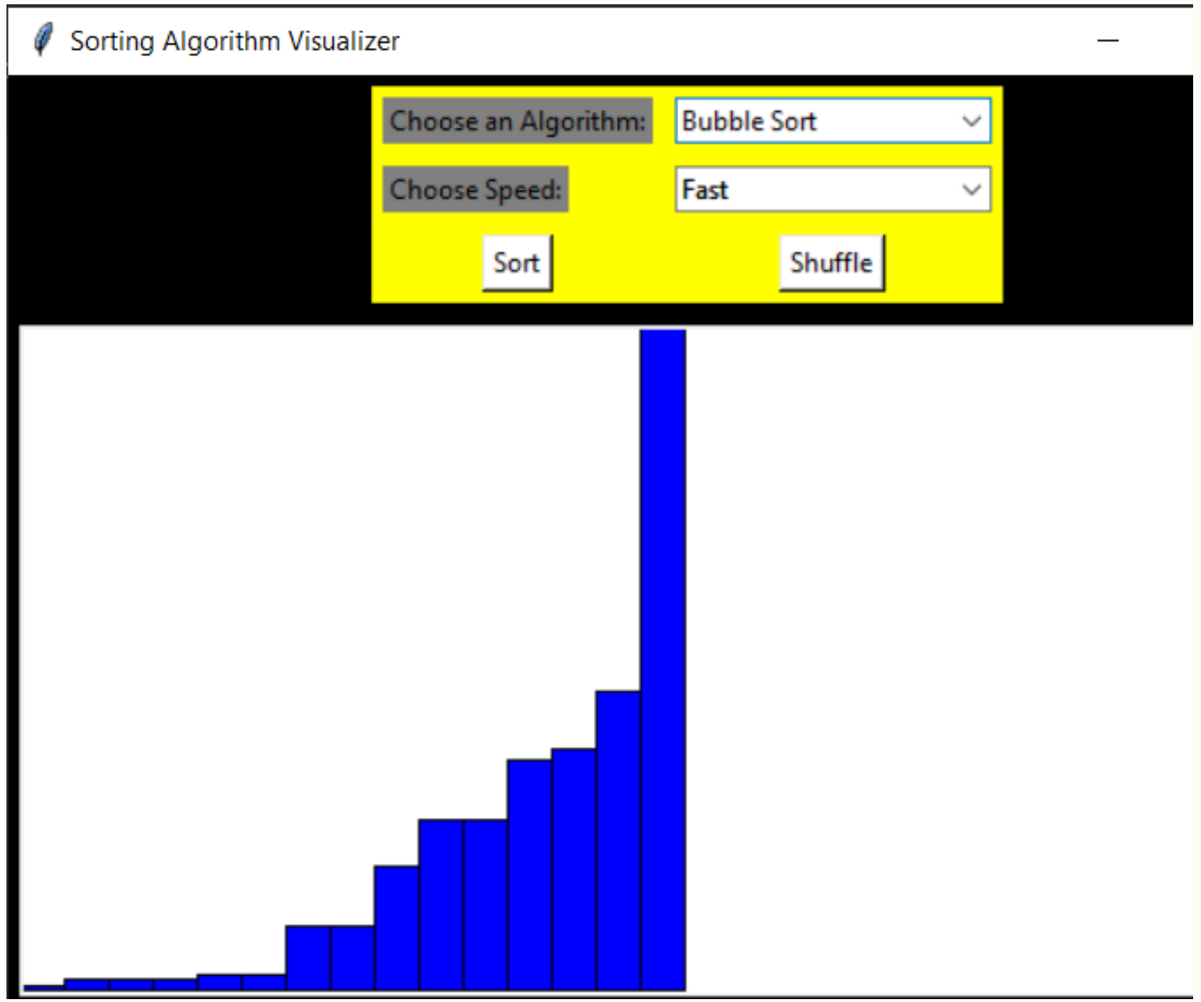
We have constructed our program on a simple GUI that on running shows two options, one for choosing the sorting algorithm and the other for the choosing between the different speeds.




02

## STEP 2

Once the code starts running, we are able to see an unsorted array get sorted by the selected algorithm at a particular speed. The rectangular bars represent the elements in the list, with the red bars showing sorting.



# Final Output: