



10/16/2022

Design and Analysis of Algorithm

Assignment 2

Section: K

Group member 1:

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Group member 2:

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Report

1. Insertion sort
2. Bubble sort
3. Selection sort
4. Bucket sort
5. Quick sort
6. Heap sort
7. Count sort
8. Radix sort
9. Merge sort

Member: 1 Algorithm performed (Green):

Roll No: 20i-0744

Section: K

Name: Sawaira Fatima

Member: 2 Algorithms performed (Red):

Roll No: 20i-0473

Section: K

Name: Faziha Ikhlaq

Language Used

1. HTML
2. CSS
3. JavaScript

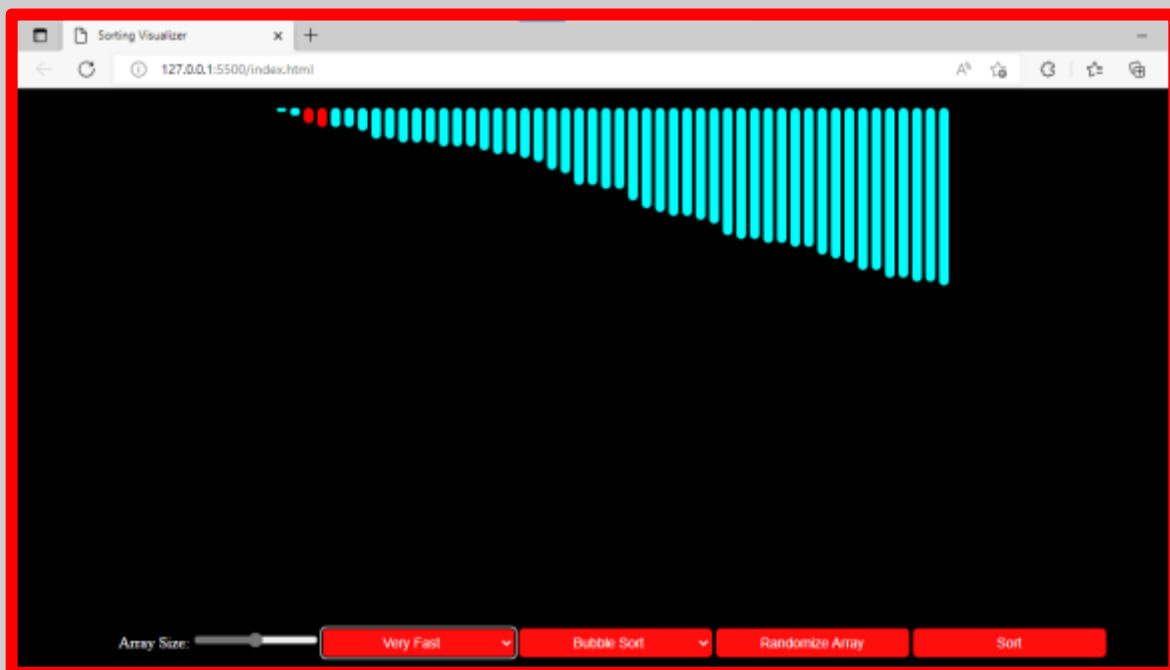
Tools Used:

1. We have used HTML and CSS purely to create front end visualizations such as the bar, sliders, and separate buttons.
2. We have also used JavaScript to run the backend sorting visualizations which include changing the bar heights, colors etc.
3. We have made the project using Visual Studio Code editor
4. Built in functions have been used as well in order to help in sorting.

How to Run the Code:

1. Download the zip file and extract the folder
2. Now, open Visual Studio Code and select open Folder Option
3. Select the Extracted Folder
4. Go to index.html page and click CTRL+S
5. At the bottom of the window, there will be a go live option, click it
6. A live Server will appear and show you the visualization
7. Select length of the array by the slider bar adjustment
8. Select the algorithm you want to implement.
9. Click on sort and you can adjust speed accordingly

Input/Output Screenshots:



Note: We have used the following links for the aid in sorting in this assignment.

Links/References:

1. <https://www.geeksforgeeks.org/javascript/>
2. <https://www.w3schools.com/html/default.asp>
3. <https://www.tutorialspoint.com/index.htm>

The End
