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| Algorithm Profiler Program Documentation  Assignment work for Data Structures and Algorithm Analysis  8/14/2023  Submitted By:  1. Finhas Yohannes, ZD 0728  2. Yanet Abrham , PM9785  3. Zelalem Amare, NV33692  Submitted to: Tariku Worku |

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# Introduction

<In this section you describe what the assignment is for or about. What sorting is, what algorithm analysis is, what complexity is, what growth rate is and etc. this section must have at least 3 pages >

# Bubble Sort Algorithm

<Bubble sort description goes here with algorithm at most two pages.>

## Best Case

<Beast case analysis goes here describing what data set makes this algorithm to perform in its best. Table for data vs. time you used to plot the graph to be shown and described. At most two pages>

## Worst Case

<Worst case analysis goes here describing what data set makes this algorithm to perform in its worst. Table for data vs. time you used to plot the graph to be shown and described. At most two pages >

## Average Case

<Average case analysis goes here describing what data set makes this algorithm to perform in average. Table for data vs. time you used to plot the graph to be shown and described. At most two pages >

# Selection Sort Algorithm

<Selection sort description goes here with algorithm at most two pages.>

## Best Case

<Beast case analysis goes here describing what data set makes this algorithm to perform in its best. Table for data vs. time you used to plot the graph to be shown and described. At most two pages>

## Worst Case

<Worst case analysis goes here describing what data set makes this algorithm to perform in its worst. Table for data vs. time you used to plot the graph to be shown and described. At most two pages >

## Average Case

<Average case analysis goes here describing what data set makes this algorithm to perform in average. Table for data vs. time you used to plot the graph to be shown and described. At most two pages >

# Insertion Sort Algorithm

<Insertion sort description goes here with algorithm at most two pages.>

## Best Case

<Beast case analysis goes here describing what data set makes this algorithm to perform in its best. Table for data vs. time you used to plot the graph to be shown and described. At most two pages>

## Worst Case

<Worst case analysis goes here describing what data set makes this algorithm to perform in its worst. Table for data vs. time you used to plot the graph to be shown and described. At most two pages >

## Average Case

<Average case analysis goes here describing what data set makes this algorithm to perform in average. Table for data vs. time you used to plot the graph to be shown and described. At most two pages >

# Conclusion

<Conclusion goes here. You describe your findings, observations and understandings here. At least 1 page>