

2020400132

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November 2023

## 1 Introduction

I worked on the following parts in this project:

1. I make calculations that finds the theta bound for worst,best and average cases for different basic sets of operations requested by the assignment
2. I checked and confirmed correctness of graph results prepared my teammate.
- 3.In order to get the most accurate and exact number of operations, I have brainstormed in a way that maximizes number of basic operations for worst case.To explain the worst case array can have different values in it due to the fact that number of operations in each section depends of the value of index i.
4. I have prepared the latex file and also reported our work in the most readable way possible.
5. I tested my teammate's code in my computer to contribute to the information about execution time.