### <Name of your Group>

### A Program Specification Document

### for the course on

### Introduction to Data Structures and Algorithms

### (DASALGO)

### Submitted by

### <lastname, firstname> of all group members, in alphabetical order

### 

### 

### <Teacher’s Name>

### Teacher

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### Introduction

### In paragraph form, provide an overview of the program that you developed. The following serves as your checklist for the items that should be present in this chapter:

### What program did you develop?

### What can the user do with your program? (e.g. The user will be able to select the starting post office. The user will also be able to input the name and address of the recipient of the mails.)

### Data Structures

### In this chapter, the different data structures that you applied in your program are presented, along with the description of the purpose of each data structure.

### Arrays

|  |  |
| --- | --- |
| Name | Purpose |
| Mails | To store all the mails inputted by the user. |
|  |  |

### Linked Lists

|  |  |
| --- | --- |
| Name | Purpose |
| Mails | To store all the mails inputted by the user. |
|  |  |

### Stacks

|  |  |
| --- | --- |
| Name | Purpose |
| Mails | To store all the mails inputted by the user. |
|  |  |

### Queues

|  |  |
| --- | --- |
| Name | Purpose |
| Mails | To store all the mails inputted by the user. |
|  |  |

### Algorithms

### In this chapter the different searching and/or sorting algorithms that you used in your program are presented.

### Searching Algorithms

|  |  |
| --- | --- |
| Name | Purpose |
| Linear |  |
|  |  |

### Sorting Algorithms

|  |  |
| --- | --- |
| Name | Purpose |
| Bubble |  |
|  |  |

### Program Flowchart

### Insert the flowchart of your program here. Using Microsoft Word, you will find various flowcharting shapes under Insert > Shapes.

### Image result for flowchart

### Figure 1. Sample Flowchart

### Program Features

### Describe in detail the things that your program can do. For each function/feature, state the assumptions, scope and limitations. Include the screenshots of your program as well.

### Read Map File

### The user can input the Map file in CSV (Comma-Separated Values) format. The first line must be the category names, while the rest of the lines must be the data. The program would not be able to read the file if it contains commas that are not separators, if there are extra separators, and if there are missing separators.

### <Screenshot here>

### Figure 2. Read Map File Screenshot

### Select Post Office

### The user can select the initial post office from the 4 post offices: Manila City Post Office, Quezon City Post Office, Pasay City Post Office, Makati City Post Office.

### <Screenshot here>

### Figure 3. Select Post Office Screenshot

### References

### Please write all the references in APA format.