Overview

This console application provides functionalities to input, sort, and search for names:

1. Input and Sort Names

2. Search for a Name

Features

1. Input and Sort Names

- Enter 14 names to be sorted.

- Display the sorted list of names.

2. Search for a Name

- Enter a name to search for in the sorted list.

- Display whether the name was found and its index in the list.

Usage

Run the application, and follow the prompts to input names, view the sorted list, and search for a specific name.

Input and Sorting Process

- Enter 14 names one by one when prompted.

- The program uses selection sort and insertion sort to arrange the names in alphabetical order.

- Displays the sorted list of names.

Searching for a Name

- Enter the name you want to search for when prompted.

- The program uses binary search to find the name in the sorted list.

- Displays the result, indicating whether the name was found and its index.

Example

Enter name 1: Alice

Enter name 2: Bob

Enter name 3: Charlie

...

Enter name 14: Zoe

The ordered array is:

Alice Bob Charlie ... Zoe

What name would you like to search for: Bob

Bob has been found at index: 1