

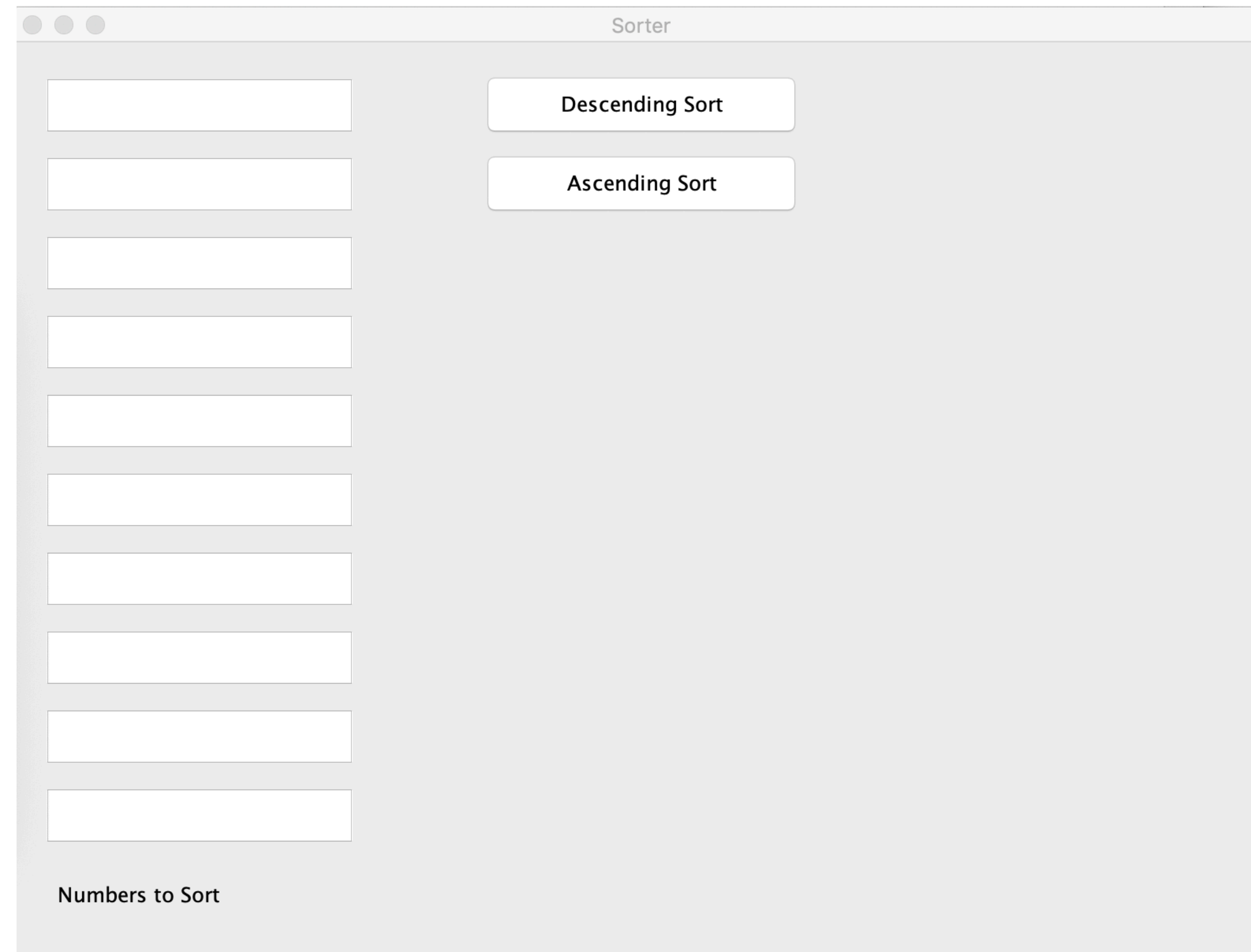
# CS 120 Project 8

Due 11:59 PM Thursday May 4

# Project 8

- Implement a program that allows users to enter integers into textfields and sorts the integers into ascending or descending order.
- The program must consist of 3 classes: `Sorter`, `DescendingButton` and `AscendingButton`. `Sorter` will do most of the work including sorting the integers. `DescendingButton` and `AscendingButton` will capture the button click events and call the appropriate sorting method in `Sorter`. The following slide shows the user interface for the program.
- The program expects one command line argument. That argument will be an integer between 1 and 10 and will be used to determine the number of textfields to display.
- You can use any sorting algorithm you want but you must write a sorting algorithm. You cannot use `Array.sort`

# Project 8 User Interface



# Project 8

- A use should enter integers into the textfields. You can assume the user enters syntactically correct values and enters values in all the fields. When the user clicks the descending button the values entered should be displayed in the textfields in descending order. When the user clicks the ascending button the values entered should be displayed in the textfields in ascending order.

# Project 8 Requirements

- You must write the code yourself
- The name of the classes you write must be **Sorter**, **DescendingButton** and **AscendingButton** and the file containing the classes must be called **Sorter.java**, **DescendingButton.java** and **AscendingButton.java**. Remember java is case sensitive.
- Include a comment describing the purpose of the program. The comment should include your name. Include a comment in each method that briefly explains **what (not how)** the method does
- You can ask questions of your classmates but you **MUST NOT** share code. If you have a question it is usually better to ask me.
- Use meaningful **variable names and proper indentation**.
- Start early!

# Project 8 Submission

- Upload one zip file to Canvas. The zip file must contain only three files. The files must be called **Sorter.java**, **DescendingButton.java** and **AscendingButton.java**.
- The project must be submitted on time.
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