

CS 2003 Fundamentals of Algorithms and Computer Applications

Implementing the SortedList Class

In this lab you will write a program that will complete the SortedList Class by completing the `SortedList.java` file available from the `~class_sandip/2003` directory on the ENS server. Your implementation must follow the framework given in the textbook on page 488 (Section 9.4). The *locateIndex* method must be implemented with the Binary Search algorithm. You will also need the following files from the same directory:

- two interfaces: `BasicListInterface.java` and `SortedListInterface.java`.
- the files `TestSortedList.java`, `Shape.java`, `Rectangle.java`, `Square.java` and `Disk.java` that are used to test your work.

In addition, you will need to use the `ListArrayListBased.java` file that you worked on in Lab 2.

Submission: Submit only the file `SortedList.java` via Harvey. *This assignment must be your own work and you should include your name and student ID in the submission.*