This is a small program that reads a sequence of numbers from text file and writes the numbers that have been sorted using insertion algorithm in answers.txt file.

The data structure I’ve used is an ArrayList. To illustrate the reason, since we don’t know the number of numbers in the file, an array could not be used (we should specify the length of the array while defining). On the other hand an ArrayList is better than other data structures like HashSet and HashTable when it comes to iterating through its elements, I iterate through the arrayList to put the elements into an array and use the array in insertion algorithm. Array is the best data structure for insertion algorithm because it lets you insert a value into a specific place with the lowest cost possible.

I wrote the code using Eclipse, on a windows platform. The compiler is java 1.8.0\_20.

To run the program put the input file (with any name) in the same directory as the iSort.java.