The project is done in Java 8u111

IDE used: Eclipse

All standard java libraries used

Input files and output files given are not in the format of the program finally being executed. The reason being we had implemented a loop so as to automate sorting of 90 files

So in order to use an input file please convert as per the specifications given below

To run insertion sort:

Input File name format: input.txt

Input file should be stored in a directory: inputFiles

Output File name format: insertionSortOut.txt

Output file will be stored in a directory: outputFiles

To run heap sort:

Input File name format: input.txt

Input file should be stored in a directory: inputFiles

Output File name format: heapSortOut.txt

Output file will be stored in a directory: outputFiles

To run counting sort:

For counting sort, we have taken n=k since it was clearly mentioned by you in part (a)

Input File name format: input.txt

Input file should be stored in a directory: inputFiles

Output File name format: countingSortOut.txt

Output file will be stored in a directory: outputFiles

To run Longest Common Subsequence:

Input File name format: input0.txt, input1.txt, input2.txt

Input file should be stored in a directory: inputFilesLCS

Output File name format: LCSout.txt

Output file will be stored in a directory: outputFilesLCS