Write a “Sort-Search” program that:

* Allows user to input an integer called X, and then create an array of X integers by one of two below data inputting methods:
  + Generating those randomly
  + Reading those from a source file (till having X integers or end of file).
* Constructs a linked list from the random array above. Handle the input integers in the next steps using the constructed linked list structure.
* Sorts the integers use the selection sort method and print out the result to a destination file.
* Allows user to input an integer from the keyboard, searches for that integer, and prints out the searching result (including: start searching time, end searching time, number of the items found) to the screen.
* Other requirements:
  + The names of the source file and destination file are defined via program arguments.
  + The folders that contain those files are defined in the two user-defined environment variables. If any of those variables doesn’t exist, use the user’s home directory instead.
  + The following features must be defined in the functions that placed in separated source files: linked list constructing, searching activity (without the result printing).
  + The sorting feature must be defined in a function that placed in a separated source file. Compile and run it in two modes:
    - The static library
    - The shared library.
  + Create a make file for the “Sort-Search” program.