Name Sorter

Purpose. The purpose is for you to demonstrate that you have mastered arrays, array-based lists, sorting, and Boolean search.

Requirements. Write a program named **nameSorter.cpp**, to read names in a text file, sort them alphabetically, and output them to the screen. Here are some detailed specifications:

- 1. The names are to be stored in an input *text file*, one name per line. Prompt the user to enter the filename via the console keyboard.
- 2. Skip any *blank lines* that may be in the input file.
- 3. Skip any *exact duplicates* that may be in the input file.
- 4. Allow <u>up to 5</u> names. Stop reading the file after the end-of-file is reached, or the 5th name is added and the list reaches its capacity.
- 5. Sort the list alphabetically, from A to Z, according to the first letter in the name string.

Optional Requirement. The sorting and checking for duplicates should both be <u>*case-independent*</u>. But do *not* permanently convert the name case -- compare lowercase (or uppercase) versions of the text for sorting purposes.

Program I/O. <u>Input</u>: a filename from the console keyboard, and then open that text file to input names. <u>Output</u>: the list of stored names to the console screen, in sorted order.

Example. Your program's console I/O should look something like this, with user input in blue:

Enter the name of the file containing names: myFriends.txt

Alex beth Carl Pat Sasha

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- 2. Skip any *blank lines* that may be in the input file.
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