

Objective: Implement Hakimi-Havel's algorithm in C++ to determine whether a given sequence of n non-negative integers is a graphical sequence.

Requirement: Your program should prompt a user to enter a sequence of n non-negative integers for testing, or to supply an input file data.txt containing several sequences of non-negative integers. For each given sequence of integers, your program needs to sort the integers into its proper format, and then process and inform the user on whether the given sequence is a graphical sequence. Your program should also perform appropriate error checking for the input sequence.

More Requirements: If you choose to do this optional assignment for bonus credit, you must submit the following items to me by the due date:

1. A brief type-written report on the structure and organization of your program, together with (1) instructions on how to execute your program, (2) I/O formats, and (3) terminating conditions used in your program when testing a sequence.
2. A copy of your source code together with some samples I/O.
3. Email me your source code. You may also email me the above two items.
4. As always, no late assignment will be accepted.

Credit: 20 points in the HW component.