Heaps used for Sorting Lab

Started: Apr 18 at 9:12am

Quiz Instructions

Question 1	0 pts

Please upload a completed copy of the **Assignment Contract (https://sit.instructure.com /courses/23566/pages/assignment-slash-lab-submission-contract)** as PDF.

Per course policy - Every student must individually submit a copy of the contract, even if only one group member submits the assignment for the entire team.

If you do not include a copy of the Assignment Contract, your work will not be graded. You will be required to resubmit and the new submission will be counted as submitted at the date and time you submit this agreement.

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Question 2	100 pts

Using only an array/list/vector (depending on your language of choice), construct a max-heap data structure. Then, read in 10 numbers from the screen, 1 line at a time. Store each one in your max-heap, one at a time. Then, output the numbers in descending order, one line at at time, by repeatedly retrieving and deleting the largest item from the heap.

You must use a max-heap to solve this problem, and you must implement the heap yourself using an array/list/vector. No other data structure will be permitted.

Note: You must not submit your "node_modules" folder if you are working on NodeJs/JavaScript. (Just submit your JavaScript source code and package.json file)

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No new data to save. Last checked at 9:26am   Submit Quiz