EECS2011 Fundamentals of Data Structures (Winter 2022)

Q&A - Week 2 Lecture

Thursday, January 27

Announcements

- Lecture W3 released (SLL)
- <u>Assignment 1</u> (requiring SLL) to be released on Monday.
- Plan of Returning In–Person (starting Feb. 14)
 - + Unchanged
 - * Pre-recorded lectures
 - * Zoom Weekly Q&A and Office hours in the first instance

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- * Online Programming & Written tests in the first instance
- + <u>Changed</u>
 - * In-Person Exam
- + <u>To be determined:</u>
 - * Some (programming and/or written) tests <u>may be</u> in-person, in which case you'll be notified <u>at least one week</u> in advance.





Problem on Recursion: Strategies for Climbing Staircase

You are asked to program this method: **public** HashSet<ArrayList<Integer>> climbStrategies(int h, int n) The return value enumerates the set of all possible ways for climbing a stair of height h, while each climb is up to n steps. <u>Assumptions</u>: n ≤ h, each climb takes <u>at least</u> 1 step

e.g., climbStrategies(4, 2) returns the following set enumerating the 5 ways for climbing a stair of height 4 and each climb takes up to 2 steps.

 $\{ [1, 1, 1, 1], [1, 2], \\ [1, 1, 2], \\ [1, 2, 1], \\ [2, 1, 1], \\ [2, 2] \}$ not a valid *strategy*





1. Study <u>my</u> solution.



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