CSE 101, Winter 2018

Lecture 6 Notes

Class URL: http://vlsicad.ucsd.edu/courses/cse101-w18/
Notes January 25 (1)

• HW #1 is returned on Gradescope. 70 points possible,
  – Minimum: 3% ; Maximum: 100%; Mean:^76% ; Median:^80%
  – Regrade window: 72 hours from when Gradescope opens up

***SUBJECT TO CHANGE: READ PIAZZA @225 (@228, etc.)

***Deadline w.r.t. @225 is tomorrow, Friday, at 6pm***
  – ***If you see rubric item “grade withheld pending…”, resolve now!***
  – ***STRICT UCSD/JSOE POLICIES ➔ DO NOT VIOLATE A.I. RULES***

• HW #2 review tomorrow 5pm in WLH 2001 (Bekhzod)
  – Having worked HW #2 is strongly correlated with doing well on MT
  – Please make sure that you consult the HW #2 solution template

• MIDTERM (not formulated yet) typically looks like:
  – Q1 Short Answer (topics not covered in Q’s 2,3,4)
  – Q2 DFS, BFS, SCCs – some kind of “mechanical” algorithm question
  – Q3 Algorithm design: D/Q
  – Q4 Algorithm design: Graphs

• MIDTERM review on Monday 7pm (GH 242; podcast set up)
  – Quizzes + Sols from 2014, 2015 are posted
  – MTs + Sols from 2013, 2014, 2015, 2016 are posted✔
Notes January 25 (2)

• On DISCUSSION [added after lecture; forgot to mention]
  – Attendance is very, very low. This is unexpected, since discussion reinforces and complements lecture. (Also, as mentioned, material presented in discussion is fair game for tests.)
  – If some aspect of discussion makes it less valuable than it should / could be, please give feedback to the 101 team. Feedback is “data” – all good.

• On HW logistics
  – Please make sure to select the correct page(s) on Gradescope for each question. The system gives you a chance to specifically review this before submitting. With the way grading is distributed across the 101 team, we cannot grade unselected pages for a given problem.
  – Please make sure that your scans are legible. If we cannot read your answer, we cannot give you points for it.
  – When following the template, please look at examples (model solutions, previous HW solutions, etc.) in class resources. This being said: “model-quality solutions” are not required for full points. They are “models”, after all.
• How many of you are now ACM student members?

• Do you practice “lateral thinking”
  – Joe is on the floor of a closed, locked room, dead by drowning. He is lying in a quarter-inch deep puddle of water. What happened?
  – Etc.

• Glassdoor etc. problems are good (= common interview fodder)
  – You are given an n x n matrix of 0’s and 1’s. Efficiently determine the largest {square, rectangle} whose four {corners, sides} are all 0’s or 1’s.
  – You are given the location of the head of a linked list of unknown length. State how you would determine whether the list has a loop in it, using O(1) – that is, not a function of the length of the list – scratch memory.
  – Etc.