

Q: What's the grading policy for Homework #7?

50 Points All

P1: 10 pt, do reasonable work but wrong, got 8 or 5 pt.

P2: 10 pt, do reasonable work but wrong, got 8 or 5 pt.

P3: 10 pt, do reasonable work but wrong, got 8 or 5 pt.

P4: 20 pt, do reasonable work but wrong, or failed to say why, got 15 or 10 pt.

Late Submit: Score in P4 - 10 pt.

Partial credits are given based on how far between the right answer and yours.

Q: Why did I lose some points on Problem 1?

1. The output including the points and their height in consecutive points, if you failed to output both, lose 2 pt. The correct output is little more complicated than “draw” from something to something. If you just “draw”, lose 2 pt.
2. If you use “mergesort-like” algorithm, you must explain how to “merge” two parts, especially for two general, rather than base, cases. It's the key component in such kind of algorithm.
3. If you use “height-based” algorithm, you must handle something like (1,5,10), (3,4,6).
4. Your code should also handle “falling part” of the skyline, like (1,10,8), (2,20,5), (3,15,7). It might be the last falling edge is from the first input. Also, your code should also handle “falling->rising->falling->...” skyline.
5. Try the following input if you thought your algorithm works: (1,10,8) (2,40,7), (3,30,5), (4,20,6).

Q: Why did I lose some points on Problem 2?

1. Your counting must be able to “count correctly”. If close (incorrect), lose 2 pt.

Q: Why did I lose some points on Problem 3?

1. Eliminate half during each iteration is the key for $O(\log N)$. If close, lose 2 pt.

Q: Why did I lose some points on Problem 4?

1. The candidates for the 2nd minimum are not easily to be found out at the first sight. If you don't offer a “why”, lose 5 pt. In fact, once you know why, you know the answer.
2. The key idea is comparing pairs, grouping the winners into pairs, and continue till only one left. If I see something similar to the above in your sheet, you will get 15 pt.
3. Try the following input if you thought your algorithm works: 1,2,10,9.

Q: What is the score distribution for this homework?

(Section, Ave) => (0101, 33.70), (0201, 35.01), (0301, 34.02)

Q: When is the deadline for re-grading?

Email to meou@cs.umd.edu with the subject “CMSC 351 HW7 Re-grading” before 12:00pm Dec 5.