

15-351 / 02-613 / 15-650 Homework #5:
Due: 2018-03-23 at 09:30

You may discuss these problems with your current classmates, but you must write up your solutions independently, without using common notes or worksheets. You must indicate at the top of your homework who you worked with. Your write up should be clear and concise. You are trying to convince a skeptical reader that your answers are correct. Your homework must be submitted via Canvas as a typeset PDF. A LaTeX tutorial and template are available on the class website if you choose to use that system to typeset.

Tip: you can take a picture of your drawings and include them in a Word document (or other typesetting system).

1. Draw what a skip list could look like after you insert 3, 11, 7, 20, 9, in that order.
2. Suppose you inserted the integers 3, 11, 7, 20, 9 into a splay tree in that order. Draw the structure of the splay tree following the last insertion.
3. Draw what the splay tree below would look like after a Splay(7) operation

