CSC 212: Data Structures and Abstractions
Spring 2018
University of Rhode Island

Weekly Problem Set #12

Due Thursday 4/26 before class. Please turn in neat, and organized, answers hand-written on standard-sized paper **without any fringe**. At the top of each sheet you hand in, please write your name, and ID. The only library you're allowed to use in your answers is `iostream`.

1 2-3 Trees

1. Draw a 2-3 tree after the following operations steps:

   (a) Insert: [10, 5, 12, 8, 19, 6, 2, 11, 15, 9, 7]
   (b) Remove: [7, 12, 8, 10, 9]

2. Write a search algorithm for a 2-3 tree.

3. Explain the tradeoffs between binary search trees, and 2-3 trees. Justify your answer, citing specific examples where you would use either type of tree.