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Homework 4

2) The insert() function uses two operators, == and <, but we don’t provide the implementation for these operators in class Coord.

4)

b. The one parameter listall function would not work because it does not have a way to determine what string to print out. Thus, it cannot determine how so structure the list.

5) a. N\*N\*N , for every person i and every person j, we will explore every person k to see if they are the connecting person.

b. N\*N\*N, because every person i will still need to explore 0.5\*n.

6)

a) N\*N, insert every item from set2 to set 1. The tail function in each ase uses k \* N time complexity.

b) N\*log(N), uses 2N\*log(n) to sort vector, and we only need to consider the higher order.

c) N, the function will traverse two sets individually.