Homework 4

* 2
  + The call to the insert function will provide an error because the insert, and other functions, use operators to compare values, which the Coord class has not defined.
* 3
  + The functions requires both parameters because with each iteration of the recursive function, the function needs to know the path up until that point and the current object.
* 4
  + Part a
    - O(N^3)
    - Three for loops that all start at 0 and go to N.
  + Part b
    - O(N^3)
    - In the word case scenario, the second for loop iterates N times. With all three for loops, the function’s time complexity is still N^3
* 5
  + Although the function only visits each element N times from the for loop, the for loop calls other member functions of the Map class that visits each element N times as well. As a result, the function’s time complexity is O(N^2).