**Report**

2. The insert call through Coord is a compilation error because the insert function calls find which requires the definition of an assignment= operator which does not exist for class Coord. So the program does not compile.

3(b) if we had the one-parameter listAll function, it would be impossible to keep track of the path that it took to reach that class or subclass in the vector.

4(a) O(N3): The most frequently occurring function occurs under 3 for loops for i, j, and k, all of which are fixed and run from 0 to N-1 which is n times each. So the time complexity is N\*N\*N = N3

4(b) O(N3): The most frequently occurring function occurs under 3 for loops for i and k that are fixed and run from 0 to N-1 and for j that runs from 0 to i-1. The maximum value i can have is N-1 which means j in the worst case scenario runs from 0 to N-1. All three loops run N times. So the time complexity is N\*N\*N = N3

5. O(N2): the for loop in the lower part of the function traverses from 0 to n so that is n times. The inside of the function calls the get function, which contains another for loop that runs from o to n-1 i.e. n times. So the most frequently occurring operations can be done in N\*N= N2