1e) If the capacity of the vector is exceeded, a new array will be allocated meaning the iterator for the vector needs to be reset to the proper location.

code fix: p = v2.begin()+k;

3. Class Coord does not have an operator > or other comparison operators, so the function will be unable to compare them, and code fails to compile.

4b. No way to retain the memory of the file path so far, each file does not know the directory it is in so you cannot go in the reverse direction to find the current file path and output the entire path.

5a. O(n^3)

Of the loops, loop that runs N times in loop that runs N times in a loop that runs n times. -> N^3

5b. still O(n^3)

the only difference is the middle loop runs half as many times-> .5N^3

6a. O(N^2)

N + N\*(N+N)

for loop runs n times, insert has maximum of n, get has maximum of n -> n \* (n+n) is largest term

6b. O(n^2)

n+n+ nlogn + 2n\*n + n

for loop at the end runs n times and insert before is maximum of n, n\*n -> largest

6c. O(n)

n + 2n + n

the maximum is the while loop which goes through each vector once, so 2n is largest term