c.1) The worst-case time complexity for the comparisons made by binary search are O(N * Log(N)). The reason for that being is that the avg, worst, and best time complexity for binary search is O(N * Log(N)).

c.2) The worst-case time complexity for the swaps/inversions is O(N^2). The reason for that being is that if it is inserted in the first position all indexes would have to shift by 1 causing making it N swaps * N iterations causing it to be O(N^2).