Homework #3		
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Ouestion 1		

- 1.1 The worst case run time of reverse1(lst) is O(n^2) because the insert function is being called multiple times within a while loop and a while loop is running at O(n). When being called once, insert function has a run time of O(n) but on multiple calls its worst run time is O(n^2).
- 1.2 The worst case run time of reverse2(lst) is O(n) because multiple calls to append have a run time of O(n) and the while loop has a run time of O(n). So the worst run time is O(n)
- 3.B The worst case run time of find_duplicates(lst) is O(n) because it uses a for loop at O(n) and sort at O(n) with multiple uses of append running at O(n), the overall worst case stands at O(n).
- 4.A The worst case run time of remove_all(lst, value) is $O(n^2)$ because within the while loop, .remove() is called multiple times. On multiple calls the .remove() function runs at $O(n^2)$
- 4.C The worst run time of my implementation of remove_all in (b) is O(nlogn) because each value of lst is checked for whether or not it matches the value and then sliced back into the original list.