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CSCI 335 Project 2 Report:

1)

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Implementation	Input1.txt	Input2.txt	Input3.txt
Vector	1,925	12,208	117,138
	microseconds	microseconds	microseconds
List	59,845 microseconds	1,007,432microsec onds	32,281,923microse conds
Неар	3,025	9,123	37,842
	microseconds	microseconds	microseconds
AVL Tree	2,995	12,510	59,995
	microseconds	microseconds	microseconds

2)

Vector: For the vector method, the worst case run-time for this function is O(nlogn). This is because the initial loop has the complexity of O(n), and within the loop you have the time complexity of O(logn). This would lead to the worst case complexity mentioned earlier.