**Summary**

To start off with the doubly linked list is absolutely the worst data structure that could be used. This is because of its almost linear search times, compared to the almost constant search times we can get with the hash tables.

This leaves us with the three types of hash tables. If we compare the hash table with linear probing to the hash table with quadratic probing, we quickly find out that the hash table with quadratic probing is better. This is because there is less insertion and search collisions with the hash table with quadratic probing, resulting in faster insertion and search times, as there is less clustering than in the linear probing hash table.

This then comes down to either a hash table with chaining, or a hash table with quadratic probing. When looking at the amount of both insert and search collisions it is clear that the hash table with chaining has less. This then leads to better insertion and search times on average between data set A and B for the hash table with chaining, than the hash table with Quadratic probing. Overall the best data structure to use for the Medical Tracking Companies contagion tracker is a hash table with chaining.