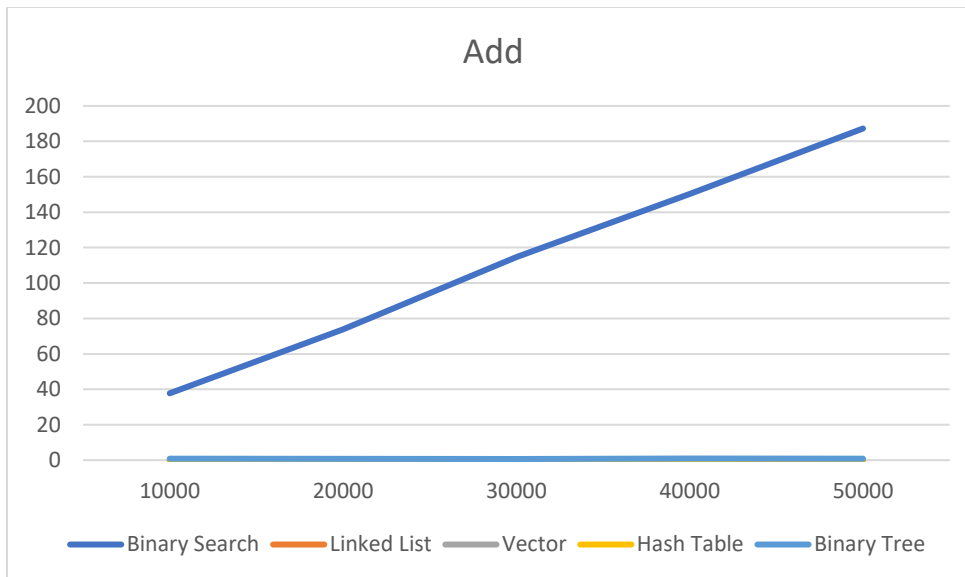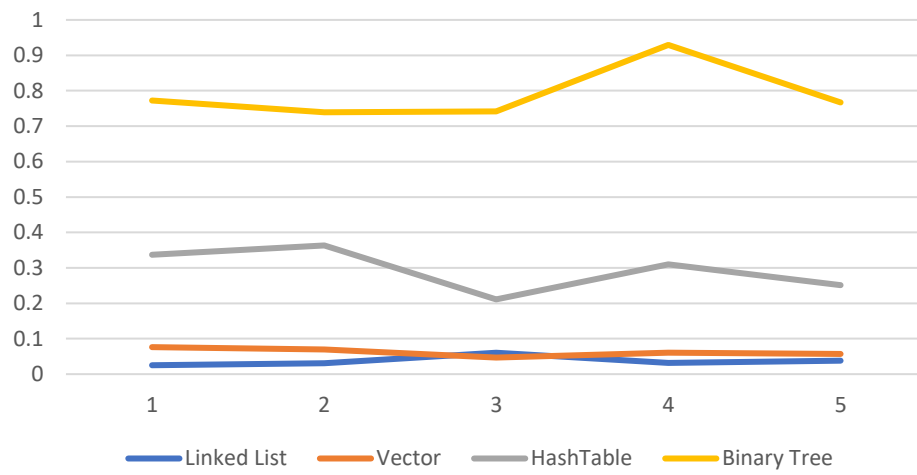Kevin Lunden

4-23-20

CPSC223

HW9

       My testing strategy involved testing all the functions in ways that I thought could break them. It also involved adding in the non-basic functions and testing them as well.

       The binary tree was challenging, it was difficult to get it all working and challenging to come up with tests for it. I found that drawing pictures helped.
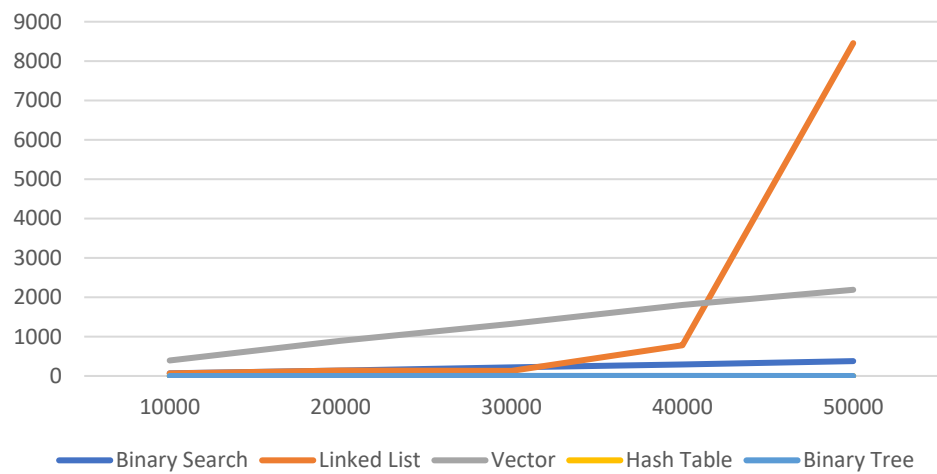
	Rand-10k	Rand-20k	Rand-30k	Rand-40k	Rand-50k
Add	0.7727 ms	0.7392 ms	0.7419 ms	0.9294 ms	0.7671 ms
Remove	1.1605 ms	1.2370 ms	1.1365 ms	1.3765 ms	1.2505 ms
Find	1.246 ms	0.892 ms	1.371 ms	1.345 ms	1.117 ms
Range	1037 ms	1663 ms	5099 ms	3223 ms	3778 ms
Sort	1101 ms	2479 ms	3170 ms	4469 ms	5603 ms

Add (Without Binary Search)

Legend: Linked List, Vector, HashTable, Binary Tree

Remove

Legend: Binary Search, Linked List, Vector, Hash Table, Binary Tree

Find

Legend: Binary Search, Linked List, Vector, Hash Table, Binary Tree

Range

Sort