Vector			
Code	Line Cost	# Times Executed	Total Cost
Read line from file	1	n	O(n)
Split into tokens	1	n	O(n)
Validate tokens (at least two)	1	n	O(n)
Create course object	1	n	O(n)
Add course to vector	1	n	O(n)
Total Cost			f(N) = 1+1+1+1+1*N
Runtime			O(n)

Hash Table			
Code	Line Cost	# Times Executed	Total Cost
Read each line in file	1	n	n
For each line in file split into tokens	1	n	n
Validate tokens	1	n	n
Insert into hash table	1	n	n
Total Cost			f(N) = 1 + 1 + 1 + 1 * N
Runtime			O(n)

Binary Search Tree			
Code	Line Cost	# Times Executed	Total Cost
Read from file	1	n	O(n)
Split into tokens	1	n	O(n)
Validate Tokens	1	n	O(n)
Insert into BST	O(log n)	n	O(n log n)
Total Cost			$f(N) = 1+1+1+\log N*N$
Runtime			O(n log n)