PhoneBook Runtime HashMap (Array of Linked Lists)

- **add:**
  In best case, this is an O(1) runtime. The PhoneBook entry is inserted into the HashMap array at the index calculated by the Hash algorithm. Worst case, the entry must be placed into the linked list at a particular index. That would be O(log n) for the add if the llist is a binary tree.

- **find:**
  Similar to add. Best: O(1) Worst: O(log n)

- **remove:**
  O(1) in best case. → use hash algorithm to get index and remove the entry at the index. (One item per index.)
  O(log n) worst case → time to traverse the Linked List

- **printList**
  O(n) → In order to print each item in the list, you must traverse through n Person objects in the Phone Book.