**Test Plan**

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| **Test No** | **Purpose Of Test** |
| 1 | Test addChangeEntry(name, telno) if it is able to add/change entry |
| 2 | Test add(name,telno) test if able to add name,telno and reallocate()(increase capacity of array) when size is larger than capacity. |
| 3 | Test if find() able to find an existing name and if it able to identify a missing name. |
| 4 | Test if loadData() able to load information from the txt file. |
| 5 | Test if lookUpEntry() able to find existing name and identify missing names |
| 6 | Test if removeEntry() able to remove existing name and identify missing names |
| 7 | Test if able to save all changes able to be saved to file |
| 8 | Test if format() able to print out as per the intended format |

**Test Log**

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| **Test No** | **Test Data** | **Expected Output** | **Actual Output** |
| 1 | Enter “Eric E” for name and 555 for telno and printout with format() | Eric E 555 | As Expected |
| 2 | Create more than 500 names and telno using addChangeEntry() and print out with format() | Able to print out all 500+ name/telno | As Expected |
| 3a | Make find() public and enter an existing name (Eric E) and printout the return value. | 0 | As Expected |
| 3b | Make find() public and enter a non-existing name (Karthik K) and printout the return value. | -1 | As Expected |
| 4 | Insert information into text file – Victor 23 Wally 24. Call loadData() Print out information using format() | Victor  23  Wally  24 | As Expected |
| 5a | Call lookUpEntry(“Sarah P”) and printout result | null | As Expected |
| 5b | Call lookUpEntry(“Eric E”) and print out result | 555 | As Expected |
| 6a | Call removeEntry(“Mary M”) and print out result | null | As Expected |
| 6b | Call removeEntry(“Eric E”) and print out result | 555 | As Expected |
| 7 | Clear txt file and enter “Apple” “99”  Call addChangeEntry(“Sam”, “345”)  Call save() Look at the updated data inside the txt file | Apple  99  Sam  345 | As Expected |
| 8 | Insert “Bucky B” for name and 222 for telno | Bucky B 222 | As Expected |