420-B20 Name \_\_Philip\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Lab 11 Review Questions

## Complete the following table with the results of **TestFindCustomer**.

| **Customer Number** | **Number of compares**  **using binary search** | **Number of compares**  **using linear search** |
| --- | --- | --- |
| 1000 | 4 | ***1*** |
| 1001 | 5 | ***2*** |
| 1002 | 3 | ***3*** |
| 1006 | 4 | ***7*** |
| 1012 | 1 | ***13*** |
| 1023 | 2 | ***19*** |
| 1028 | 5 | ***23*** |
| 1034 | 5 | ***25*** |
| 1075 | nullpointerException | nullpointerException |
| Minimum No. of compares | 1 | ***1*** |
| Maximum No. of compares | 5 | ***25*** |
| Average No. of compares | 3.6 | ***11.6*** |

## Which search method is more efficient for the customer list – the binary search or the linear search?

\_\_\_\_\_\_\_\_\_The Binary search is on average more efficient\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_