**Introduction:**

In this assignment we were asked to implement sets and maps using arraylists or linkedlists and compare the methods implemented with the built-in java ones.

**Methods used:**

I used arraylists to implement the sets and maps methods. Then I tested and compared with the built-in java methods.

**Data:**

|  |  |  |
| --- | --- | --- |
|  | Java(ms) | Arraylist(ms) |
| Adding set | 130 | 874619 |
| Adding map | 61 | 964228 |
| Total Lookup set | - | 5772075 |
| Total Lookup map | - | 1031841 |

**Conclusion:**

We conclude that using arraylists(and I bet linkedlists) give you the worst timing than implementing using hashtables.