

```
Number of compares: 29367  
Number of zig-zig: 4847  
Number of zig-zag: 4466
```

4 b)

During this assignment, I have learned that splay trees are very efficient when it comes to any caching. Since recently accessed nodes are splayed to the root, any frequently accessed nodes will be moved around the top area of the tree, insuring fast accessing time.

Trees in general are reliable when the user makes all sort of operations, since for any operation the time complexity is  $O(\log n)$ .