

Our design for this assignment was to store the words in a linked list, with each node having it's own linked list of files. We choose this data structure because it makes inserting and removing nodes easier. Once the main data structure is built, our SA and SO duplicate the nodes they need first and store them in a temporary data structure. This way, we don't risk inserting or removing something from the main data structure.

For this assignment we used the Indexer that was provided. Our indexer had a few bugs that we hope to fix soon.

Valgrind does report invalid reads at times, with some blocks not being freed. Most allocated memory, however, is freed.

We tested using this command:

```
./search test
```

Test was created using the provider indexer, with the animals folder passed to it.