Given a file that contains data as below:

foo, bar, moo foo, bar cho, goo boo, roo

Ingest the file and:

- 1. Print all the unique strings in the file.
- 2. Given a line number, print the strings in that line. This has to be a constant time lookup.
- 3. Given a string, print the line number(s) where this string occurs.
- 4. Given a word, print the no of occurances of the word. This has to be a constant time lookup.

Line numbers are 0 indexed.

Points to keep in mind:

- 1. Image that this is production code and do all the checks that you would do in production.
- 2. Do not worry about scalability, use the simplest solution that you think of.

Example:

For the below data:

foo, bar, moo foo, gho cho, goo

Unique strings are: foo, bar, moo, gho, cho, goo

Given 0, strings in that line are: foo, bar, moo

Given foo, line numbers are:

0, 1

Given foo, no of occurrences would be:

2