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CSS 143 B

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Homework 7 Problem 3 Design

Autocomplete Goal:

Given a set of words [“hello”, “high”, “seattle”, “seatac”, “see”, “hollow”, “how”];

* When you input “h”, it’ll produce [“hello”, “high”, “hollow”, “how”]
* When you input “se”, it’ll produce [“seattle”, “see”]
* When you input “sea”, it’ll produce [“seattle”, “seatac”]
* When you input “ho”, it’ll produce [“how”]
* When you input “xyz”, it’ll produce []

Design:

Similarly to homework 6, the text search engine that can search a single word or phrase from the given texts. The autocomplete will work in a way where the first letters of the word will produce the result. Storing the set of words in a place, and using the autocomplete to figure out what words have the first letters we are looking for.

Things to Include:

* Something to store the set of words, most likely a hashmap/hashtable
* A List of Integers to figure out where the index of the words we are looking for are at