***MyMap***

*associate()*

Assuming MyMap has N number of Nodes, then associate() is O(log N).

*find()*

Assuming MyMap has N number of Nodes, then find() is O(log N).

***WordBag***

*constructing a WordBag*

Assuming N is the amount of words (from the wordbag) to be added and W is the amount of words already in the map, then constructing a WordBag is O(N log N).

***Indexer***

*incorporate()*

Assuming W is the amount of words from WordBag that we must incorporate, P is the average number of URLs associated to each word, and N is the number of URLs, then incorporate() is O(W \* P \* log N).

*getUrlCounts()*

Assuming N is the amount of words in the index, then getUrlCounts() is O(P log N), where P is the average number of URLs associated to each word.

***Searcher***

*search()*

Assuming W is amount of search terms, P is the average number of URLs connected, and N is the total number of words in the index, then search() is O(W \* P \* (log N + log P)).