All functions

Functions

| Functions | |
|-------------|--|
| std::string | |
| string | $\label{eq:fr_dict::search_definition} \mbox{ (int desired_row_number)} \\ \mbox{Looks for the stored definition of the word in the dictionary. It has complexity } O(N) \mbox{ as it gets the entire line until it finds the number of line.}$ |
| void | |
| void | |
| bool | |
| void | |
| | HashTable::HashTable () Construct a new Hash Table object, allocate item positions. $O(N)$. |
| int | $\label{lem:hash_function} \textbf{HashTable::hash_function (const std::string \&str)} \\ \text{simple hash function that increases the value on each loop according to the integer value of the char. } O(N) \text{ where N is the str length.}$ |
| void | $\label{lem:hashTable::insert} \textbf{HashTable::insert} \ \ (\textbf{const std::string \&str}) \\ \textbf{Linear probing to insert value. Worst case is } O(N) \ \ \text{for the last value if the keys happen} \\ \textbf{to be poisoned (they are generated sequentially)}.$ |
| std::string | HashTable::search (const std::string &str) Searches in ${\cal O}(N)$ time where N is the length of the str to hash. |
| void | HashTable::print_hash_table () Prints every location with a value in it. $O(N)$. |
| bool | Preprocess::not_first_run () check if the preprocessing has been ran before. Complexity $O(1)$. |
| void | Preprocess::filter_xml_data (unsigned int entries) Filters data using the predefined regex patterns. Dumps definitions and words to separate files. Complexity $O(n^2)$. |