In this project I implemented the InvertedFile class using 3 subclasses; DictFile, MapFile, and PostFile class. The DictClass contains methods for interacting with text documents to store and retrieve a record containing terms, num_docs which is the number of documents containing those terms, and start which is a pointer to the beginning of the block of memory containing additional information. The start pointer points to the posting file beginning index of that term. The posting file class and file encapsulate the appending and retrieval of records containing the document Id and frequency. Lastly the mapping class and file facilitate retrieving a document full name by a document id. In the main.cpp file, you will find some test cases, testing all three of the subclasses using the wrapper class InvertedFile. These test cases include looking up a valid document and invalid document. If successful retrieval of a document the program will output the appropriate data, if not it will output -1 along with the error message highlighted in red.