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In this project, we implemented a B tree index on search key of integer type. We sorted key and rid pairs into the B tree index. Basically, we followed skeleton code given by instructor.

If the index file is made for the first time, the root of the tree initialized as a type of leaf node.

Then, we do insert process with insert function which is recursive function for finding correct leaf page. In the scan part, we traverse the tree and unpin pages to make only one paged pinned at the time. Based on our abstract design, we developed btree.cpp.

For the test, we modified given main.cpp to add two more tests: One is for empty test (test 4) and the other is one-leaf test (test 5). Empty test is the case when the data is empty, so the tree is also empty. One-leaf test is the case when there is only one leaf node in the tree. We passed all the test given by instructors and tests we designed.