B+ tree Lab Assignment, Spring 2022

We are assuming that you have already implemented the practice assignment on your own.

In today's lab, you have to modify the insertion strategy to accommodate aggressive splitting as discussed in the class:

- While inserting a new record in your B+ tree, you start searching for the right data node by going through the index nodes.
- During this search, if you find any index node that is full then you have to split it. The index node will contain 2t+1 keys. You have to split it into three parts as follows:
    - left node with t keys
    - one key sent to the parent
    - right node with t keys

Rest all specifications remain the same as the practice assignment.

No doubts will be entertained during this lab. If a certain specification is ambiguous or missing then make your own assumptions.

Note on code submission:

Make sure that all your code fits into a single file <roll number>BplusLab.cpp

How your code should compile?

g++ <roll number>BplusLab.cpp

How your code should run?

a.out < input_file_name

Your code should write the output on the stdout