18556 - Gautam

/* Evaluation:

1. Code compilation:

1. Does code compile without errors? - Yes.
2. Was a readme.txt file included with instructions on how to compile and run? - yes.

2. Correctness (positive test cases):

1. Can I insert a key? - No. Keys are read only from file.
2. Can I delete a key? - Not implemented.
3. Can I search for a key? - No.
4. Can I view display of tree? - No.
5. Can I specify size of B+ tree node (# of keys in a node)? - no. It seems to be hard coded in the Node Class:

```
int max_length=4;//no. of keys to be put in the each of the leaf node.
```

6. Do the nodes satisfy the B+ tree property? - Unable to verify since there is no display method.
7. Can I create a B+ tree from a file of keys? - Yes.
8. Can I save my B+ tree to a file? - No
9. Can I load back the file saved in step 7? - No.
10. Can I insert and delete keys from the command line even after loading keys from file? - No
11. Is Output for keys1.txt correct? - Unable to verify
12. Is output for keys2.txt correct? - Unable to verify

3. Programming Style & General Comments:

1. Are there useful comments that complement the code? - No
2. Is the indentation style neat and consistent? - No. Wide gaps between methods and inconsistent indentation.
3. Are there had coded limits or magic numbers used in the code? - Yes. Max_length is hard coded to 4.
4. Are there hard coded file paths used in the code? - No

4. Exception Handling:

1. Delete on empty tree. - Delete not implemented.
2. Delete a non-existent key.- Delete not implemented
3. Insert a key that exists already (keys3.txt). - Unable to validated
4. Call display on empty tree. - Display not supported
5. Print an empty tree. - Print not supported (though method is present).
6. Empty lines in input file (keys4.txt). - No handled. Empty lines seem to be processed as keys.

Score - 9/20.

*/