18552- Akhil

/* Evaluation:

1. Code compilation:

1. Does code compile without errors? - Yes.
2. Was a file included with instructions on how to compile and run? - No. The Readme.md file does not show me the steps to compile. Even after adding Junit and Hamcrest, I was unable to run the junit tests.

2. Correctness (positive test cases):

1. Can I insert a key? - Method is implemented. I am unable to verify.
2. Can I delete a key? - Method is implemented. I am unable to verify.
3. Can I search for a key?- Method is implemented. I am unable to verify.
4. Can I view display of tree? - No. Not implemented. I don't see an implementation to output the tree to a dot file. How come you have some dot files in your folder?
5. Can I specify size of B+ tree node (# of keys in a node)? - Yes. In the constructor of BPlusTree. Not controllable by user.
6. Do the nodes satisfy the B+ tree property? - Unable to verify since display is not implemented. Hence NO.
7. Can I create a B+ tree from a file of keys? - No. The program has hardcoded the filename to names.txt
8. Can I save my B+ tree to a file? - No. This is not an implementation:

```
private void print_tree() {
        System.out.println("here we are printing the b+ tree.");
}
```

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 since file name is hard coded. Hence No.
12. Is output for keys2.txt correct?- unable to verify since file name is hard coded. Hence No.

3. Programming Style & General Comments:

1. Are there useful comments that complement the code? - None.
2. Is the indentation style neat and consistent? - yes.
3. Are there had coded limits or magic numbers used in the code? - No.
4. Are there hard coded file paths used in the code? - Yes.
   Line 57 in BPlusTree.java - File file= new File("names.txt");
5. General Comments:
   1. Lack of a proper interface to test your implementation.

4. Exception Handling:

1. Delete on empty tree. - unable to verify
2. Delete a non-existent key. - unable to verify
3. Insert a key that exists already (keys3.txt). - unable to verify
4. Call display on empty tree. - No.
5. Print an empty tree. - No
6. Empty lines in input file (keys4.txt). - unable to verify

Score - 10/20.

*/