

# 18561 - Manoj Kumar

/\* 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):

**The application is failing with a java.lang.ArrayIndexOutOfBoundsException while launching. The log is enclosed as eval.txt in the same folder.**

1. Can I insert a key? - Only from file. That is also failing.
2. Can I delete a key? - No
3. Can I search for a key? - No
4. Can I view display of tree? -
5. Can I specify size of B+ tree node (# of keys in a node)? - No
6. Do the nodes satisfy the B+ tree property? - Unable to verify since program is not working.
7. Can I create a B+ tree from a file of keys? - yes. Fails when inserting though.
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? - No
12. Is output for keys2.txt correct? - No

## 3. Programming Style & General Comments:

1. Are there useful comments that complement the code? - No
2. Is the indentation style neat and consistent? - yes
3. Are there hard coded limits or magic numbers used in the code?
4. Are there hard coded file paths used in the code? - yes

Output file name is hard coded in Converttodotfile.java:12

```
String file="./Dotoutput.dot";
```

## 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) - not working.
4. Call display on empty tree - not working.
5. Print an empty tree - not working.
6. Empty lines in input file (keys4.txt) - empty lines being treated as keys. .

Score - 9/20.

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