/* 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. Insertion is failing after inserting 2 keys:

- 2. Can I delete a key? not implemented.
- 3. Can I search for a key? Unable to test since insertion is failing on launch.
- 4. Can I view display of tree? No.
- 5. Can I specify size of B+ tree node (# of keys in a node)? No. This is hard coded in the Node class:

```
public abstract class Node
{
    int n = 4;
    String keys[] = new String[n];
    int size;
    Node parent;
    public abstract boolean isLeaf();
}
```

- 6. Do the nodes satisfy the B+ tree property? Unable to test since insertion is failing on launch.
- 7. Can I create a B+ tree from a file of keys? Option exists.
- 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 had coded limits or magic numbers used in the code? Yes. Size of node is hard coded to 4.
- 4. Are there hard coded file paths used in the code?

4. Exception Handling:

- 1. Delete on empty tree not implemented
- 2. Delete a non-existent key not implemented.
- 3. Insert a key that exists already (keys3.txt) fails with java.lang.NullPointerException.
- 4. Call display on empty tree display not implemented.
- 5. Print an empty tree Empty input file is handled.
- 6. Empty lines in input file (keys4.txt) fails.

Score - 9/20.

*/