Binary Search Tree

1. **Implement the API using Binary Search Tree:** Implement the following API using Binary Search Tree.

void put(Key key, Value val)

Value get(Key k)

Key min()

Key max()

Key floor(Key key)

Key ceiling(Key key)

Key select(int k)

Iterable<Key> **keys**(Key lo, Key hi)

void delete(Key key)

void deleteMax()

void deleteMin()

**Key Type:**

Key will be an object of type book containing following attributes

Name

Author

price

**Note:**

Object comparisons should be done based on Name of the book.