

Hashmap Implementation

Java Code

```
import java.util.*;
public class HashMapCode {
          K key;
          this.value = value;
      public HashMap() {
          for(int i=0; i<4; i++) {
      private int hashFunction(K key) {
          LinkedList<Node> 11 = buckets[bi];
```



```
for(int i=0; i<ll.size(); i++) {</pre>
    if(ll.get(i).key == key) {
       put(node.key, node.value);
int bi = hashFunction(key);
    buckets[bi].add(new Node(key, value));
double lambda = (double) n/N;
```



```
if(lambda > 2.0) {
public boolean containsKey(K key) {
   int bi = hashFunction(key);
public V get(K key) {
```



```
ArrayList<K> keys = new ArrayList<>();
         LinkedList<Node> 11 = buckets[i];
             Node node = ll.get(j);
 public boolean isEmpty() {
 map.put("India", 190);
 map.put("China", 200);
map.put("US", 50);
ArrayList<String> keys = map.keySet();
System.out.println(keys.get(i)+" "+map.get(keys.get(i)));
System.out.println(map.get("India"));
```