**public** **synchronized** V put(K key, V value) {

// Make sure the value is not null

**if** (value == **null**) {

**throw** **new** NullPointerException();

}

// Makes sure the key is not already in the hashtable.

Entry<?,?> tab[] = table;

**int** hash = key.hashCode();

**int** index = (hash & 0x7FFFFFFF) % tab.length;

@SuppressWarnings("unchecked")

Entry<K,V> entry = (Entry<K,V>)tab[index];

**for**(; entry != **null** ; entry = entry.next) {

//先判断哈希是因为比equals快，而且用的逻辑与

**if** ((entry.hash == hash) && entry.key.equals(key)) {

V old = entry.value;

//可以看出还是替换掉了旧有的值

entry.value = value;

**return** old;

}

}

addEntry(hash, key, value, index);

**return** **null**;

}