Informally...

```java
boolean put(key, value) {
    hashcode <- hash(key)
    bucket <- hashcode % BUCKET_COUNT
    if a binding with key is in bucket
        return FALSE
    insert a new binding containing key and value into bucket
    return TRUE
}
```

```java
value getValue(key) {
    hashcode <- hash(key)
    bucket <- hashcode % BUCKET_COUNT
    if a binding with key is in bucket
        return the binding’s value
    return NULL
}
```

```java
boolean remove(key) {
    hashcode <- hash(key)
    bucket <- hashcode % BUCKET_COUNT
    if a binding with key is in bucket
        remove the binding from bucket
    return TRUE
    return FALSE
}
```