











```
int hash(const string &key, int tablesize) {
    int hashval = 0;
    // f(k) by Horner's rule
    for (int i = 0; i < key.length(); i++)
        hashval = 37*hasval + key[i];
    // g(k) by division method
    hashval %= tablesize;
    if (hashval < 0)
        hashval += tablesize;
    return hashval;
    }
</pre>
```

HashTable Class	
te	emplate <class hashedobj=""></class>
c]	lass HashTable {
pι	ublic:
	<pre>explicit HashTable(const HashedObj) &amp;notFound, size=101</pre>
	HashTable(const HashTable &rhs) :
	<pre>ITEM_NOT_FOUND(rhs.ITEM_NOT_FOUND),theLists(rhs.theList; }</pre>
	const HashedObj &find(const HashedObj &x) const;
	<pre>void makeEmpty();</pre>
	void insert (const HashedObj &x);
	void remove (const HashedObj &x);
	const HashTable &operator=(const HashTable &rhs);
pı	rivate:
	<pre>vector<list<hashedobj>&gt; theLists;</list<hashedobj></pre>
	const HashedObj ITEM_NOT_FOUND;







