class MyHashSet {

int buckets;

int bucketItems;

boolean [][] storage;

public MyHashSet() {

this.buckets=1000;

this.bucketItems=1000;

this.storage=new boolean [buckets][];

}

private int hash1(int key){

return key%1000;

}

private int hash2(int key){

return key/1000;

}

public void add(int key) {

int bucket=hash1(key);

int bucketItem=hash2(key);

if(storage[bucket]==null){

if(bucket==0){

storage[bucket]=new boolean[bucketItems+1];

}else{storage[bucket]=new boolean[bucketItems];}

}

storage[bucket][bucketItem]=true;

}

public void remove(int key) {

int bucket=hash1(key);

int bucketItem=hash2(key);

if(storage[bucket]==null) return ;

storage[bucket][bucketItem]=false;

}

public boolean contains(int key) {

int bucket=hash1(key);

int bucketItem=hash2(key);

if(storage[bucket]==null) return false;

return storage[bucket][bucketItem];

}

}

/\*\*

\* Your MyHashSet object will be instantiated and called as such:

\* MyHashSet obj = new MyHashSet();

\* obj.add(key);

\* obj.remove(key);

\* boolean param\_3 = obj.contains(key);

\*/