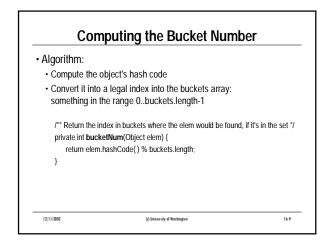
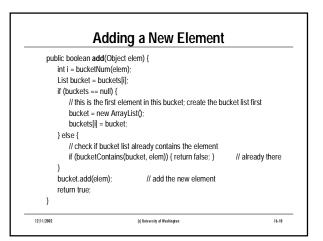
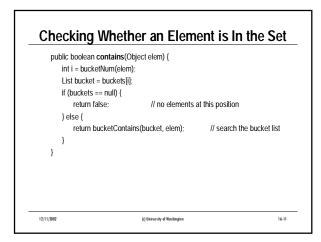


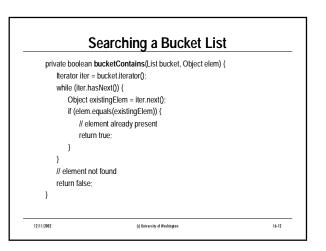
	hashCode()	
Class Object definition of the class of the	nes a method <i>hashCode()</i> which retu n object	irns a an
Strives to be difference	ent for different objects, but might not always	be
 Other classes car instances 	override this if a more suitable hash function	is appropriate for
 Key rule: if o1 and o1.equals(o2) = 	l o2 are different objects, then if	
it must also be tru		
o1.hashCode()	== o2.hashCode()	
	verride either of hashCode() or equal uld override the other one to be consis	
	system cannot enforce these rules. Il follow them as a matter of good pra	
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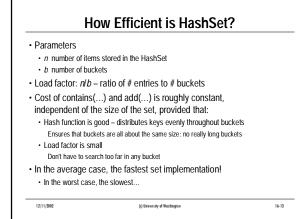
HashSet Class			
 HashSet: an implementa 	tion of S	Set usina hashina	
public class HashSet impleme		5 5	
private List[] buckets;	<pre>// buckets[k] is a list of elements that satisfy // elem.hashCode() % nBuckets == k</pre>		
	// bucke	ets[k]==null if no elems have hashcode k	
private static final nBucke	e ts =101;	// default # of buckets	
public HashSet() {			
buckets = new List[nBu	ckets];	// each elem initialized to null	
}			

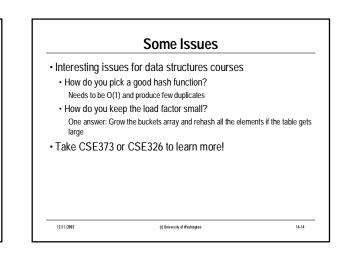












Summary		
Hash function element	s can "guess" the right index to lo	ook for an
Can do it fast	er than binary search can	
 If most bucket very well 	s are short (e.g. <= 3 elements),	then works
-	sh functions and the ability to gro buckets small	ow the buckets
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