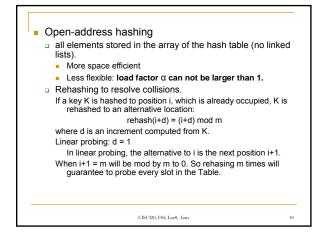
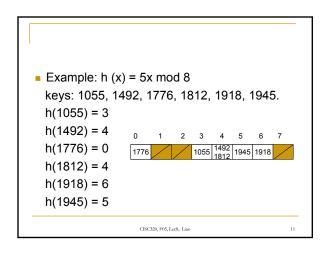


• Uniform hashing: each key is equally likely to be hashed into any integer [0, ..., m-1]. **load factor** α : n/m, Where n is the number of keys that will be actually stored in the table. That is, α is the average length of lists. Therefore, average time for search = O(1+ α). If n = O(m), then α = O(1). **All dictionary operations can be supported in** O(1) time on average.





 Example: h (x) = keys: 1055, 149 				• •	` ') mo	d 8.
h(1055) = 3	0 1	2	3	4	5	6	7
h(1492) = 4 h(1776) = 0	1776	1/	1055	1492	1812	1918	1945
h(1812) = 4, but mod 8 = 5, whic h(1918) = 6 h(1945) = 5, but T[6] is also occu	th is empty	/, ṡo cupie	1812 ed. R	2 is s eha:	store	d in) = 6	T[5].
empty.	CISC320, F05	, Lec8, Lizo					12

