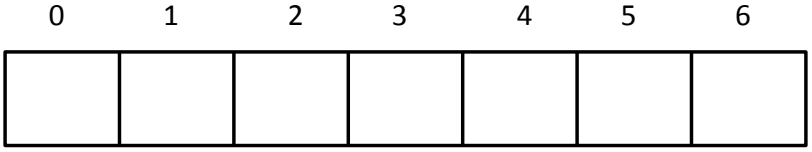
ICS/CSE 23 **Monday, February 8, 2010**

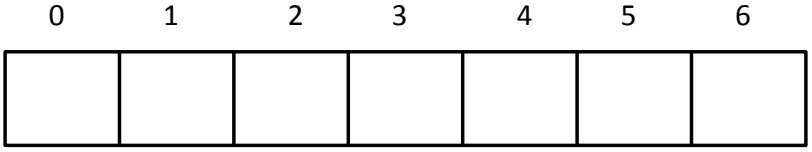
Quiz 5

Instructor: Sandy Irani

1. Consider the 7-entry hash table below. Show what the table would look like after hashing the keys $10, 14, 12$ and 17. The hash function is $h(i) = (2i - 5) \bmod 7$. Collisions are handled using separate chaining.



2. Repeat question 1, except now use linear probing to resolve collisions.



3. Consider the Skip List below. Suppose we perform a **SkipSearch(13)** on the list. Mark each node with an X if its key is accessed during the SkipSearch operation.