Homework : Hashing

Insert 2341, 4234, 2839, 430, 22, 397, 3920 into a hash table of size 7 in the given order.

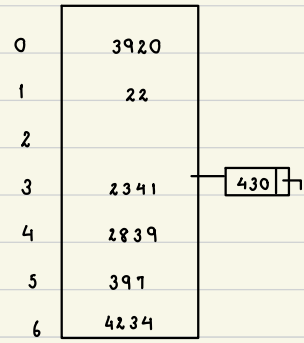
Hash function h(x) = x mod 7.

Show the resulting tables after all data have been inserted into the table with each of these collision strategies :

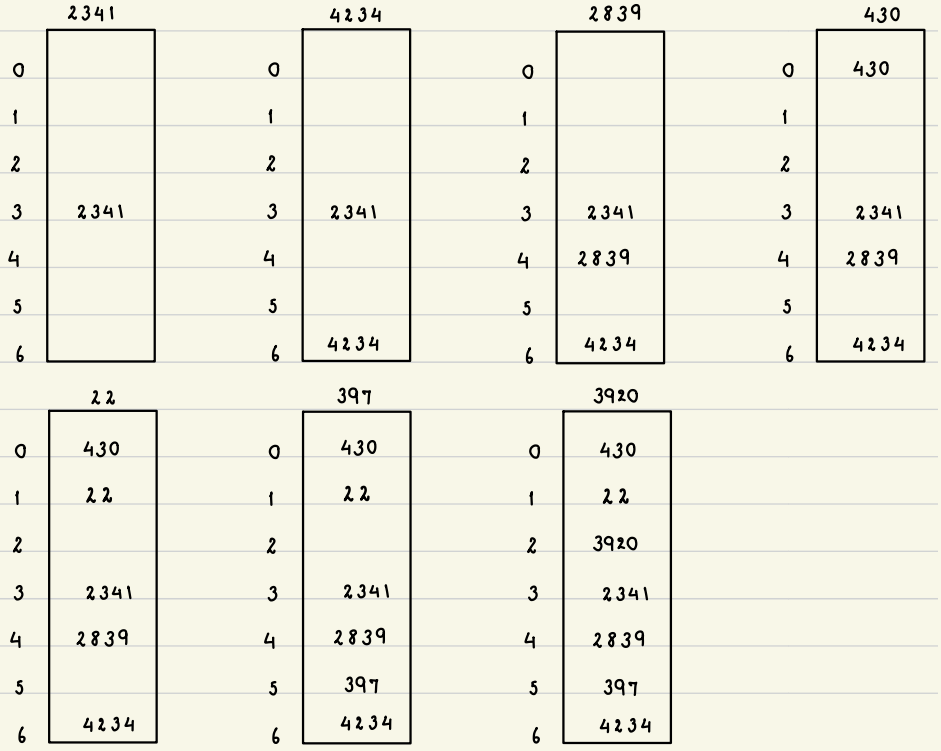
- separate chaining
- linear probing
- quadratic probing and
- double hashing with second hash function
  h'(x) = (2x - 1) mod 7.

h(x) : x mod 7

separate chaining



linear probing



double hashing $h'(x) = (2x-1) \bmod 7$

$h' = [5, 4, 0, 5, 1, 2, 6]$