Hashmap Structure
Skey: value } Table: { -> count } -> count } -> count } -> count } -> capacity } -> Entry* entries }
La Array of Entries
Ly Array of Entries  Entry struct: { String Obj * key. } -> String Obj {>chars } -> hash }
methods > API  nowh  length   That: set everything to 0  Value value;  Api   Clear: Clear entries, then init.  Add up:
Value value; -> Clear: Clear entries, then init.
→ lockup:  → insert:
-> Delete:
Open Addressing Harling
Open Addressing Hashing —> linear probsing cus too complicated to do doubt hashing
lookup hash 2 orange hash 2 sapple alread  [ apple = 2 orange = 2 trure
[ _ applorange

- => Keep going +1 (.next) until empty slot
- => AMORTITED O (1) > O(1) complexity on average.

## RESIZING THE HM

- => base Size
- -> capacity above 0.7 -> increase-size (when ruserling)
  -> if cap below 6.1 -> decrease
- => x2 or /2 everytime.

## DELETING ITEMS

=> mark ar DELETED\_ITEM ENTRY

=> every deleted element will just point to DELETED\_ITEM by ref