

skps: -- commer key to integer.

o using host values hosh (6) - 5 hosh ('h') - inger - exhald index from in year. o integer % size aw hello "hi" abc" (4, "abc")

(45, "hello") (23, "hi") (13, 27) def h (K): return k 1.5 h(4) = 4 arr[4)= abc h(75)=0 "helle"
arr [0] = "helle" h(13) = 3 arr [3] = 27

arr (3)=3. hi.

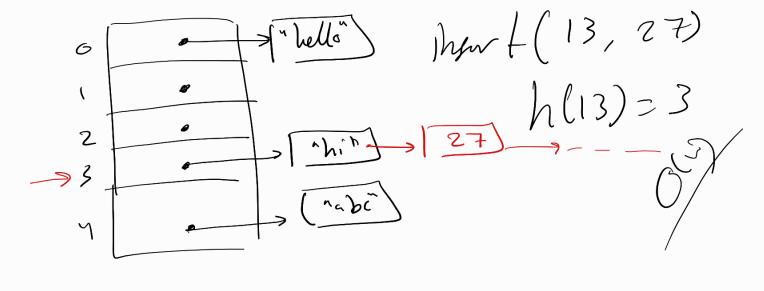
arr (3)=3. hi.

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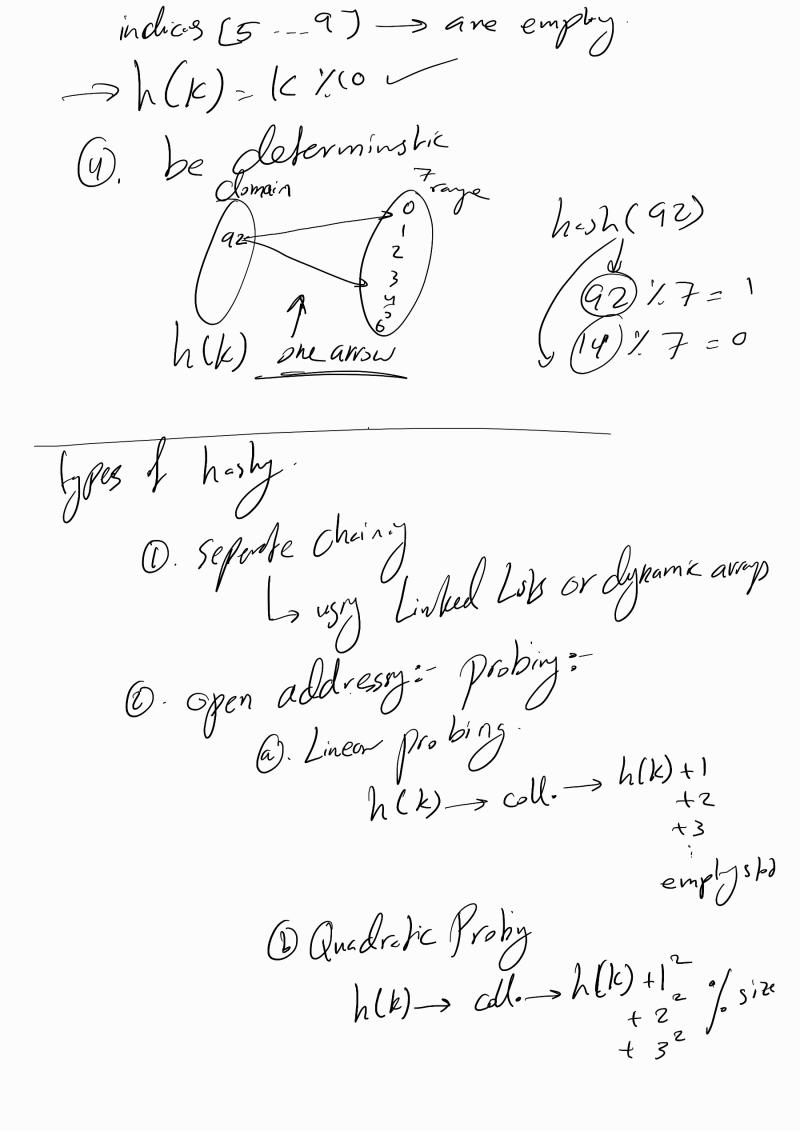
Buckets

Sepende Chainy



hash Kunchon Char. h(k)=16×10 O. minimizy Collisions h(1001) = 1 h(k)= K X(11) h(1611) = 1 h(1001) = 0 Prin L (1021)= 1 h(1011) = 11 h(1021)= 9 Sum = 0 (2) fast to compute. for each char scho Sum+ askii (ch) 0(1 in a hosh Mb 3) distribule keys uniformly K [0 -- 99] X h(k) = floor (x/10)/10 indices [0---9)

K= [0--49] -> [0--4]



@ double Proby hi(k) hi (k) - solle-s linear prohy (3). re hashy. 3.1 using one of the prev. mechanisms

3.2 if the bad factor >= threshold

1.1/M number 5120 of army thun rehish Exercise a new away of size next prime @ insert old values into new arry.

