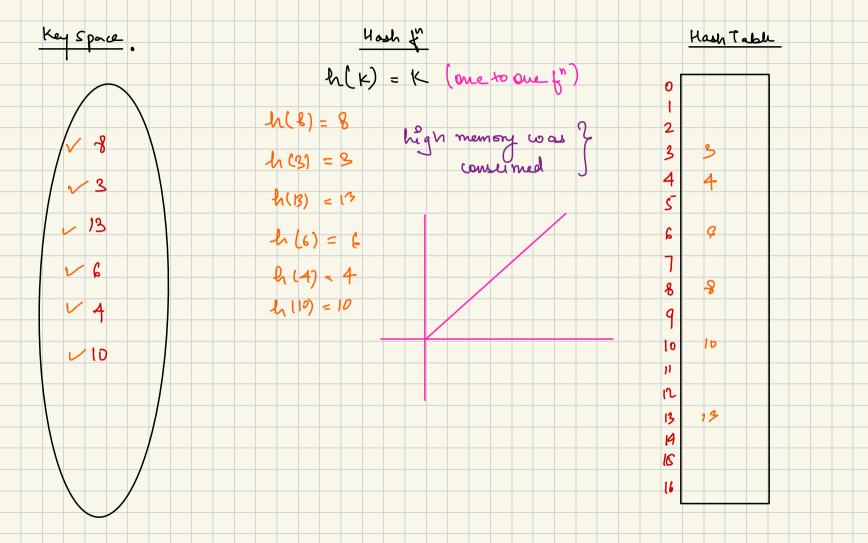
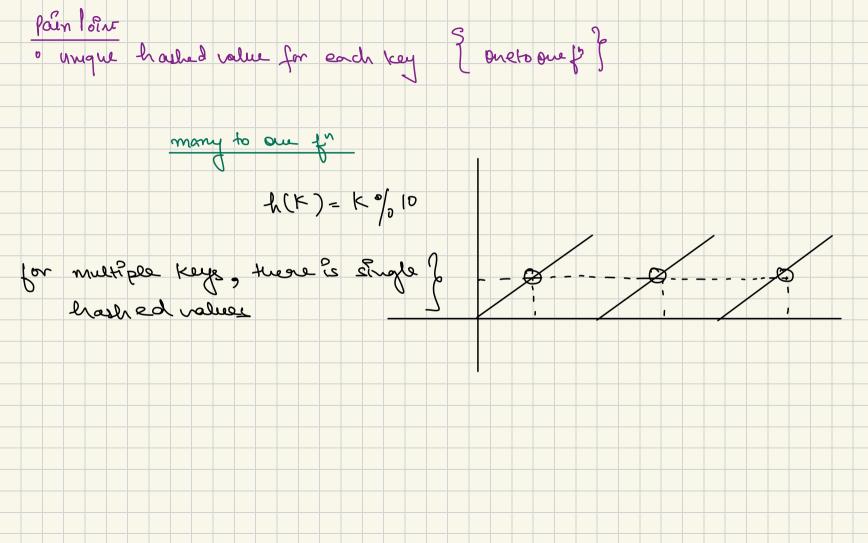
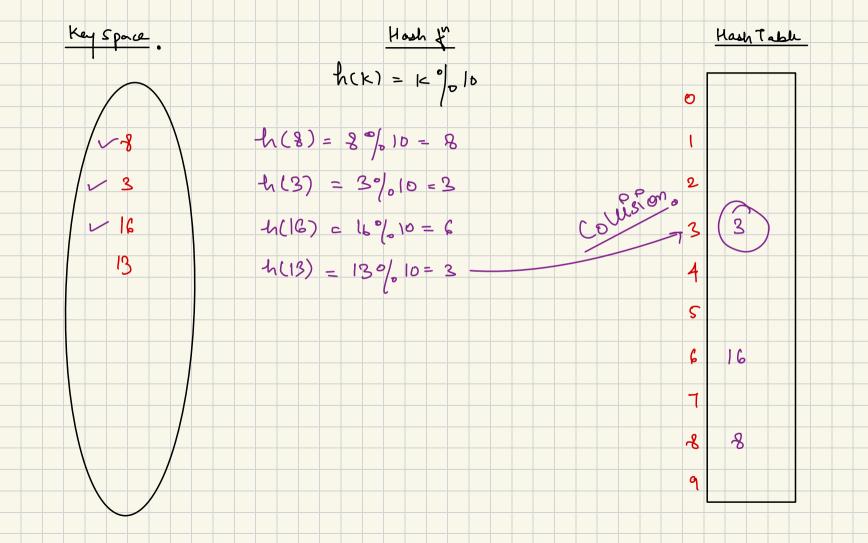


8, 3, 13, 16, 17, 14, 10 50 search (unt key) | TC!OCI) | SC!OCI) ? (arr [key] = = tru)
return found, else vetum "Not Jourd"; Colign Nemony was consumed o hence hading Das

Basic Mechanism of Hashing Hach fr, {2-steps fr} h(K) = y hashed value







Methods to remove collsion Chose of Hashing.

(1) Linear Probling

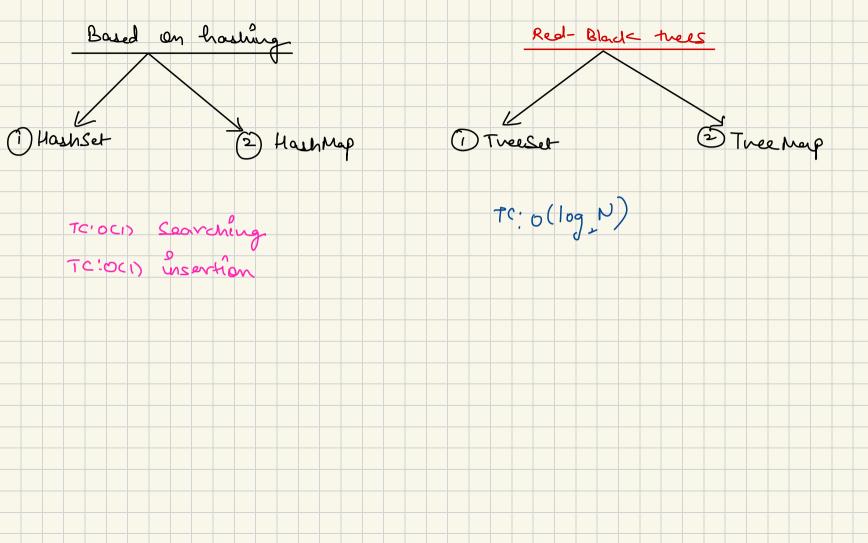
(2) Quadratic Probling Open Haching. (1) Chaining

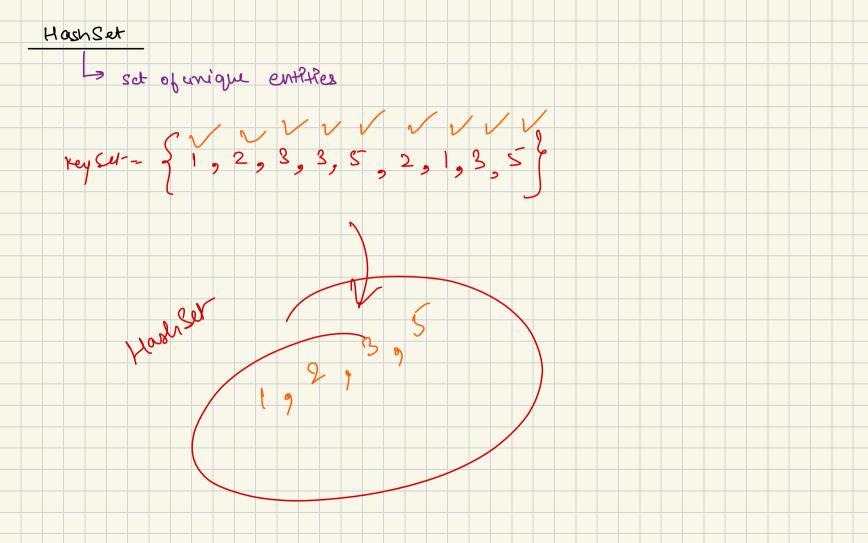
Chaining. Key Space Hash & Hash Table h(K) = K /0/0 O h(8) = 8%10 = 8 4(3) = 3%10 = 3 4(16) a 16% 10 = 6 13 4(13) - 130/00=3 103 h(103) 1030/010=3 16 Search (1°3) Te: 0(1)

Hash fr h(n) = n % 10 X Coal factor Range

Unear Probing Hash Table 4(K) = 3 h(K) + g(i) }% 10 h(x) = K°(.10 g(1) = i; (=0,1,2.... 1 (8) = {h(8) + g(0)} % 10 - (840) % 10 = 8 4 1(3) = { 4(3) + 96) }% (0) = (3+0) 10 10 =3 41(16)= } f(16) eg(6) } %10 = (640) (10= 6 41(13)=84(13)+50134(10-8+0)1,10=3 4'114 = 3 h(13) + g(1) g%10 = (2+1) 1/010=4

Quadratic Probing h(K) = }h(K) + g(i) Pol. L.P. n(k) = K0/0 L.f. 90) = (2 , 0, 1, 4, 9, 16, 25, 0000





Hash Map implement snopping court for & commerce Storng Key (Hem) Integer value (qty) stores (Key, value) pour (unique entity) or amges yogurt

