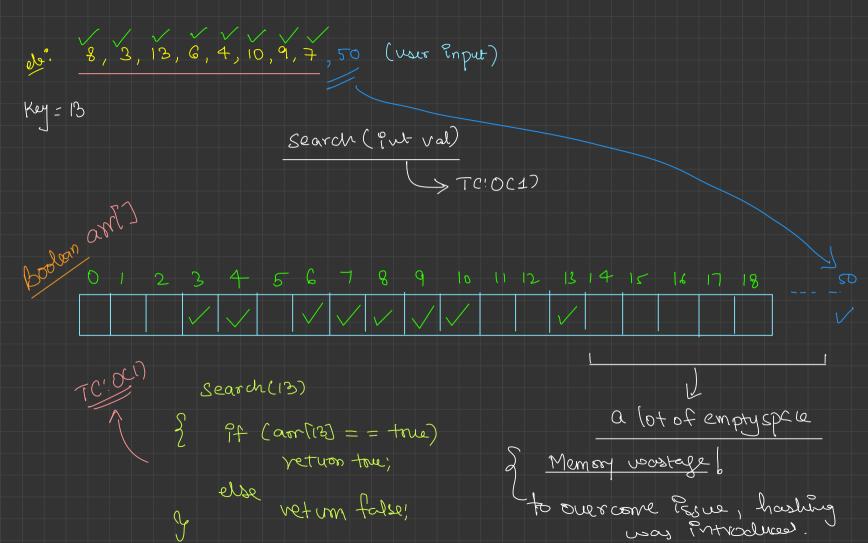
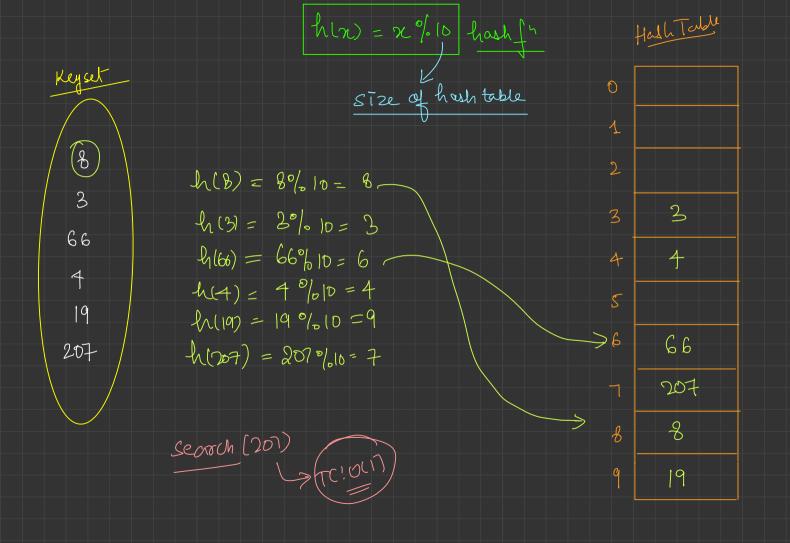
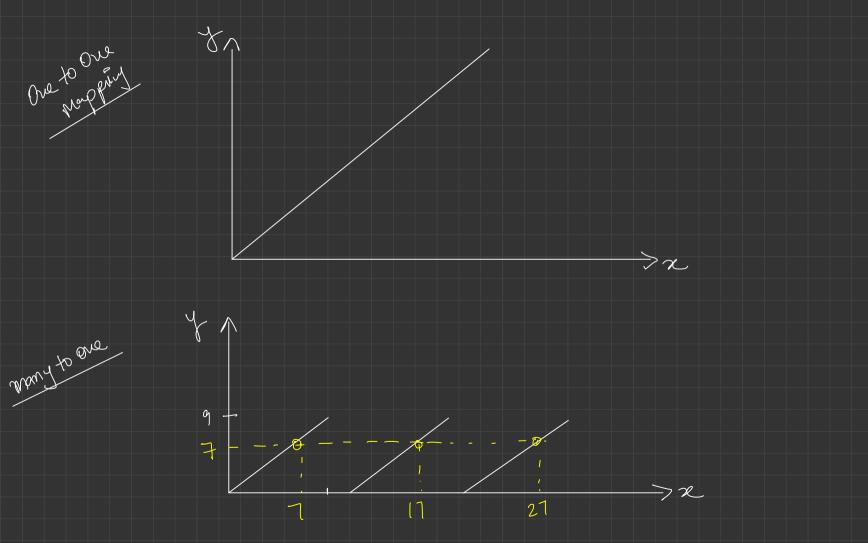


Hashing technique used for searching purpose Guear Search Bin any Search >TC:OW TC:O(log N)



hashe hash table X Kly Set Masling In (2 step process) g(n) = K = Meger value Shared value





hln) = x % 10 hash fr Halh Tolde Keyset 0 h(b) = 8% 10 = 8 h(3) = 2% 10 = 3 B 9(66) = 66% 10 = 6 3 Collision >3 h(4) = 4 8/010 = 4 66 Pr(19) = 19 %10 =9 4 4 h(207) = 207 % 10 = 7 19 h(33) = 330/, 10=3 66 207 33 207 8 19

Methods to Remove Collisa Open-Pasting Closed hashing > chaining > lluear froblig > quadratic froblig

Charing hln) = x % 10 hash fr ALLIZ Hadh Todale 0 h(8) = 8% 10 = 8 (g h(3) = 2% 10 = 3 h(66) = 66% 10 = 6 h(4) = 4 8/010 = 4 66 Pr(19) = 19 % 10 =9 h(207) = 207 % 10 = 7 19 h(33) = 33°/10=3 66 207 h(23) = 2 33 207 Searching (33) 8 19

hash fr h(n)=x 0/0 local factor 75% of range of values given

Enear Problem to
$$h(x) = [h(x) + f(i)] = 0$$
 Size $h(x) = x = 0$ ID $h(x) = x = 0$ I

Unear brushing Le dis adv : Clustering Issue quad Probing $h'(n) = \left| h(n) + f(i) \right| = \left| h(n) + f(i) \right|$ $e_{1}(n) - 2c^{2}/_{3} e^{1/2}$ $e_{1}(n) = 1^{2}$, $e_{1}(n) = 1^{2}$

2 - Data Structures Based On hash Theory Hash Set: Stones unique entity Joan Live HashMap

Hash May

here key are in ordered format