Analysis of Algorithms-CS 323 Lecture # 7 –March 16,2016 Notes by: Amir Gul

Analysis of Algorithms (5 323 Lecture #7-March 16, 2016) Hosping- For Seatching when bolonce Linear Search D(n) when but Binary Search D(logn) avg (balanced)

Esnally Search Tree O(log) avg (balanced)

O(n) -> not Balance (word cose) the dea of thisting is when the data is Hash Functions we need to denly the key-The use phone number that where the value is in takey. # Usually we toke a posticular key let say h(K) = K mod 10000 It give me last 4 numbers the same number last 4) happened to same K1 = K2 # Although Keys are not some but h(k1) = h(k2) Collision -> chaining m = Number of elements KI LAND

MORA Case = O(n)

Collision Solution is called essolution 2 sample- social security number. Phone number exchange Social security wary based on 1 Parking Spot when someody are parked 2nd way probing (near parking) linear probing h(K) justo # how populated still constant. Probing final what happened in I delete something. I take the place and marked it.

If the seasching will continue

Deletion apper the problems Bt withdraw from school-Binary Seasch tree fosh map Generally we use a lot. Mustering means: Data grouping together