Basic Hashing virg important for dea 1 appears 2 A int P(number, arr[])? for(isid ikn jitt)?
it(art[i] = number) cn++=1 every number 1 by is equal to num. return ent. asked for: O(N) x asped to check however, this can take very long it is a huge humber, so we use hashing: prestorry/fetching 10 = max Value Evalue max givens hash Arr [] = 0 8 8 0 0 0 0 0 0 0 prestres in mother array 012345078010 hash-Arr [1]=2 //instead of asking than looping hash Arr[2]=2 hash Arr [3]=1 *solved all queries at once has 3 Arr [4]=0 //if arr has large size arr [number] &= arr [106] // max arr size arr [number] <= arr[10] // declared ontside of main (global)

st/(c) collection (sour) unordinalinap hash Map arr [i]}++ frequency stormy) Fetching & (logN) Square * Camot create array & 10) mod 3/2 criany to trim 289010=8 Collision = when multiple hash space ex) & holds 28,38,58, etc.