Thursday, 14 October 2021 8:33 PM Collision Resolution Technique)pen<u>Addressing</u> linear Probing ~ (hach(x) + 3) % size -> Quadratic probing

i² elot hash (x) $\frac{1}{7} \left(hash(x) + 1^2 \right) \% s$ - Double boehing Introduce hasha(x) hash(x) $+ 1 \times hash2(x)) / s$ > (hash(x) + 2+ hasha(x)) %.5 > (hash (x) + 3x hash3(x)) %.5 longest Consecutive Sequence = [2, 12, 9, 16, 10, 5, 3, 20, 25, 11, 1, 8, 6] start of a sequence cannot be a not present start of a < Integer, Borlean > I I I I Lequence Isux false [2, 12, 9, 16, 10, 5, 3, 20, true false 16 true given an Enteger array and a number k, selturn true/false if the given among can be divided into pairs culn that sum of every pair is divisible by k. Eg: are = [9, 7, 5, 3] R=6 Eg: are = [91, 74, 66, 48], K=10 Output -> false 74+66 (91+48) 1) If (ar. length %2)!=0 '-> false Given too nums @ and @ ~ 0% k = = × 2 √ 6% k = = k-x then (a+b) % k = = 0 $\begin{bmatrix} a^{\circ}/o & k = = x \\ b^{\circ}/o & k = = k - x \end{bmatrix} \rightarrow given$ (a+b) % k = ((a+b) % k) % k (at b) is divisibly by (w). [20, 25, 10, 3, 15, 7], k=10 find the length of the longest subarray with 0 sum. arr -> [15, -2,2, -8, 1,7, 10, 2,3] ans \rightarrow (5) ar - [1,2,3]