2. harb (k) = ((ak+b) mod p) mod m a=3, b=42, P=101, m=9 hgry2(k) = ((3\*k+42) mod 101) mod 9 1) No of dements =1 (no) 11 No of elements = 3 (n2) 3 11 No & clements = 1 (NS) 122 37 11 No ( elements = 4 (n-1)  $\sum_{j=0}^{m-1} (nj)^2 = 1^2 + 0^2 + 3^2 + 0^2 + 0^2 + 1^2 + 0^2 + 4^2 + 0^2$ 1+9+1+16 = 1 27 200 36 20 to mile E (n;) 2 4n, we can use this hashing for level 1 Dr made

Level 2 :-Since there's only one element level hash Valle of p=101, m=1 lo = 5 Let hab(k) = ((10k+5) mod to) mod 1 40/02 2 3 4 5 40 52 Muse one & charge size of level & feel hosts table at on would be lince there's onto are 3 elements in no, the Size of level 2 half table of ne would be 32. b= 5, 12101, m=9 Let (14 k+6) mod 101) mod 9 135 60 72 751 234 0 104/201 P 5 6 22 37 7

