# Hashing	• • • • • • •	• • • •	
Hash Fonction			
) It's a method for conducting.			
from Key. [Ex!-) Hach ("AKhil") = 3 to other (Index)			
to the high the harman of the high the			
Input (Key)			
More: Dile Use Index to Store (Key).			
Complexity with AF			
(onficerity with 1) *) Conficerity With Function. (comblicated for Complex ty Peis).	• • • • • • •		
toutity Tast (Theceing Generation To)			
(ollission Re-solution 1)	• • • • • • •		
Two different Key's will be hosted			
Ex!>) Hash ("Axwell) = 3 ~ " (ollision".			
Hash ("Sonday") = (3)			
H) Importance of (HF) in diffuserd Caseis;			
1) No-Space Limitation (-)			
If we don't have any Proble with the 'Space' then,			
Le Con generale Many différent Key's as Passible for Every sover grader.	• • • • • • •		
for Every Duray Frolex.			
L) By This! > 1) We Can Greate Long dynamic Array L) By this, " We Can use (key) Head as a	Index!		
By His, We and Se ()			
*) It we have no time Limitedion			
(1) 1) Hash Exempthing to Same Place.	• • • • • • •		
1) 1) Howsh Changlion, Sewids. Sewids.			
More!-) Pty a bit Slow			
H) Computing Hash Function		0 0 0	
/ <u>[.]</u>			
On Ker! — > HF Index!			
On Ker! — > HF Index!			
On Ker! — > HF Index!			
(31 Key" — HT Table [Problem Aroben From Key Meed a Hash Fonction The Should apply diff approach for Every different Key Type".			
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Broken Problem Froblem And Should apply diff offices for "Every different Key Type". Note! => Basic Type! > Ind, float, dooble, string. Note! >> Basic Type! > Ind, float, dooble, string. => Custom Type >> Implementing a diff approach for a Costo **Ney Characteristic's of Hash Function Same Tuple >> Same outful (Deterministic) Dynamic Size Tuple >> Hash Should be Some Dynamic Size Tuple >> Hash Should be Some Reg Trage Resistance -> Hashvale -> Key Hoshi (V)	Length		
Broken Problem Froblem And Should apply diff offices for "Every different Key Type". Note! => Basic Type! > Ind, float, dooble, string. Note! >> Basic Type! > Ind, float, dooble, string. => Custom Type >> Implementing a diff approach for a Costo **Ney Characteristic's of Hash Function Same Tuple >> Same outful (Deterministic) Dynamic Size Tuple >> Hash Should be Some Dynamic Size Tuple >> Hash Should be Some Reg Trage Resistance -> Hashvale -> Key Hoshi (V)	Length		
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Problem Problem Problem Pi) Svery Key Med a Host Foodfan. Pi) We should apply dift approch for "Every differed Key Tyle". Note (1) Show Type (1) Ind, Hood, dooble, String. (a) Coston Type (2) Inflementing a dift approch for a Coston Type (3) Inflementing a diff approch for a Coston Type (3) For Inflementing a diff (Deterministic) None Influt -> Some attlet (Deterministic) None Influt -> Hash Should be Some (i) Some Influt -> Hash Should be Some (ii) Pro-Inage Resistance -> Hashade -> Key -> Hashade (iv) Gillison Resistance. (iv) Avalanch String Hash (iv) From Type: Input (Small charge) -> Different (iv) Avalanch String Hash (iv) Proce Input: 12345 (iv) Proce Input: 12345 (iv) Hosh Value => 12345 (124 = (18)) (iv) Hosh Value => 12345 (124 = (18))	Length		
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