



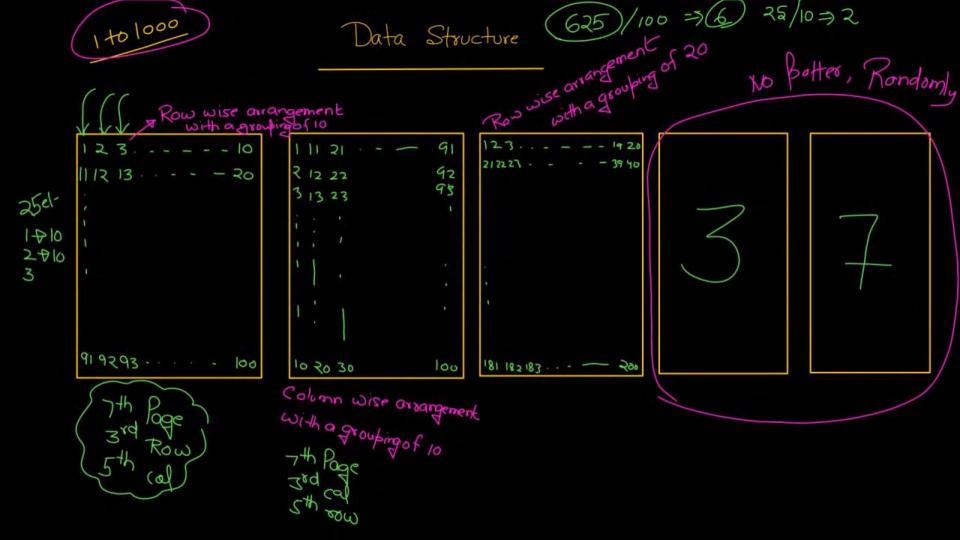




Introduction to Data Structures
Lec- 01

By- Pankaj Sharma sir

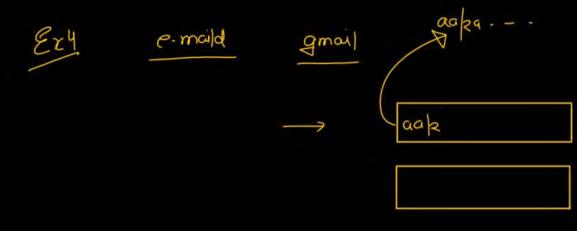






search ?

Algorled Search Dictionary Ex3 Parrot Lion → Insert > unsorted





1) Linear data structure

2) Non Linear data structure

Adala structure in Which an element con have almost 2 neighbours.

More than 2 reighbours ~

Linear data structure	Non Linear data structure
Arrays Address calculation	I Tree : Binary tree )
Linked List - Code	Binary Search tree 60% Heap
	3) Graph AVL tree
Stack	

Hashing

41 Queve

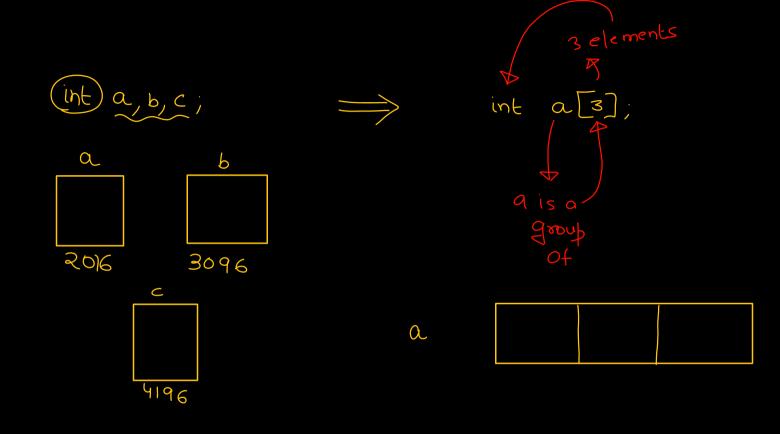
C Programming - Arrays, pointers, structure

A O Roowledge - C recording 2x -

int mi, m2, m3;

and = (w1+w2+w3)/3

int m1, m2, m3, m4, m5, ----

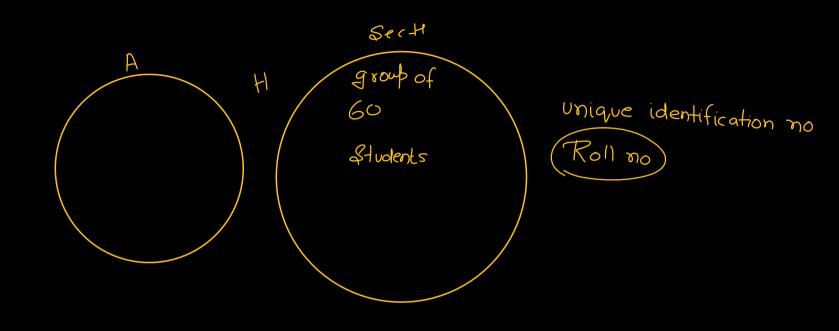


group of elements of same type. int a [10];

Collection of homogenous types of data elements

char < [5];

float P[20];



0 3 int a[4]; a index=0 index=1 index=2 index = 3 (1st element) (2nd) (3od element (element) (of p[6]; 6 0 to 5 6[0] 6[5] b[2] b[3] b[4]

int 
$$a,b,c$$
;  $a$   $10$   $20$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $100$   $1$ 

void main(){

int a, b, c;

int a[3);

a(o) a[1] a[2]



