



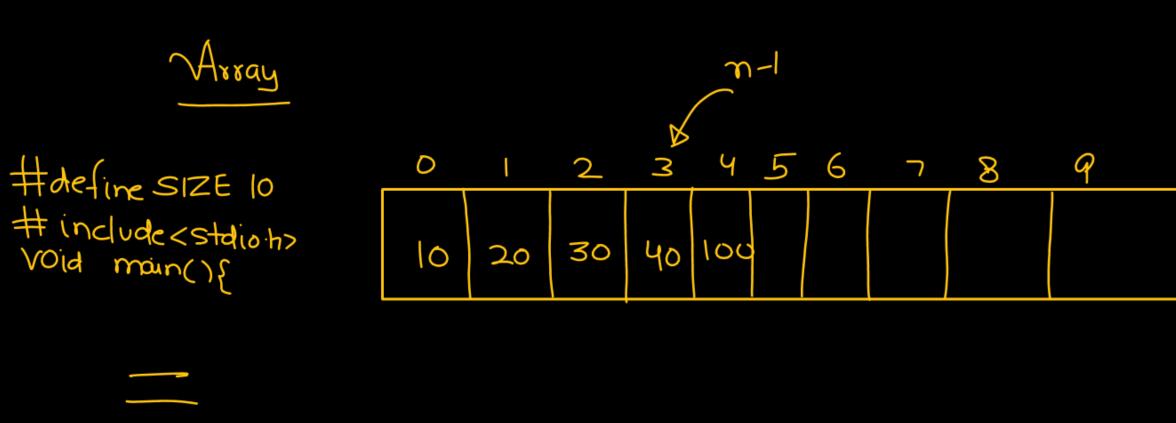
By- Pankaj Sharma sir

Data Structures

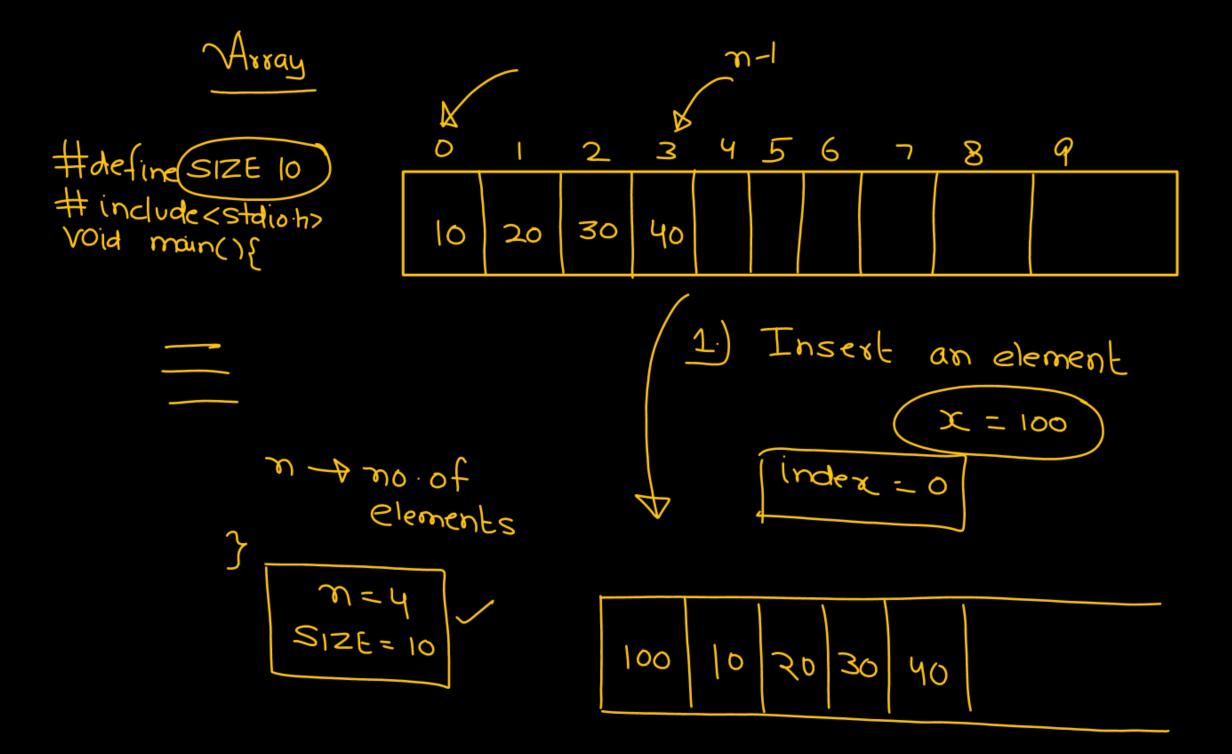


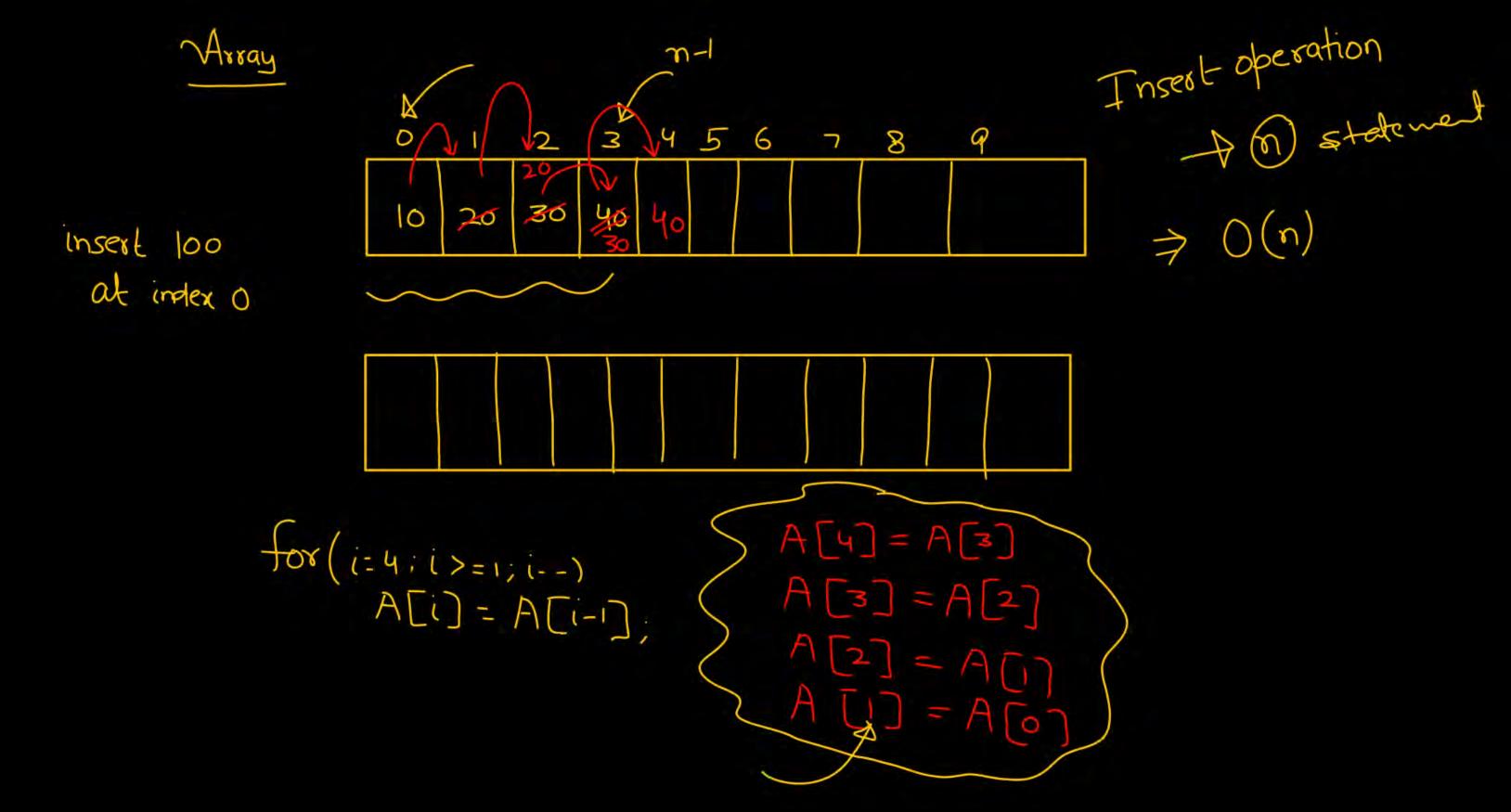




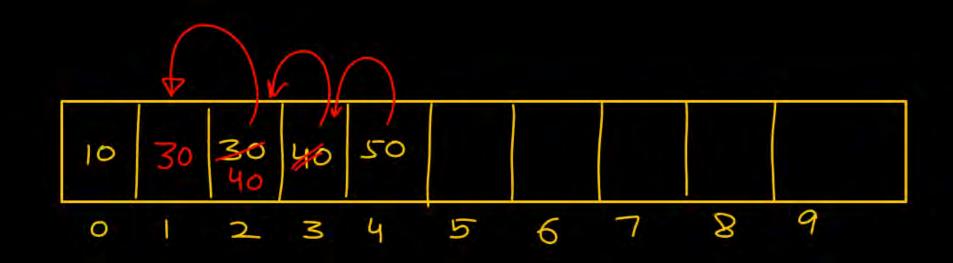


n - A no of elements N = 4SIZE = 10 1.) Insert an element x = 100 End A[n] = x n = n+1





delete operation



delete element at Index 1

$$A[1] = A[2]$$

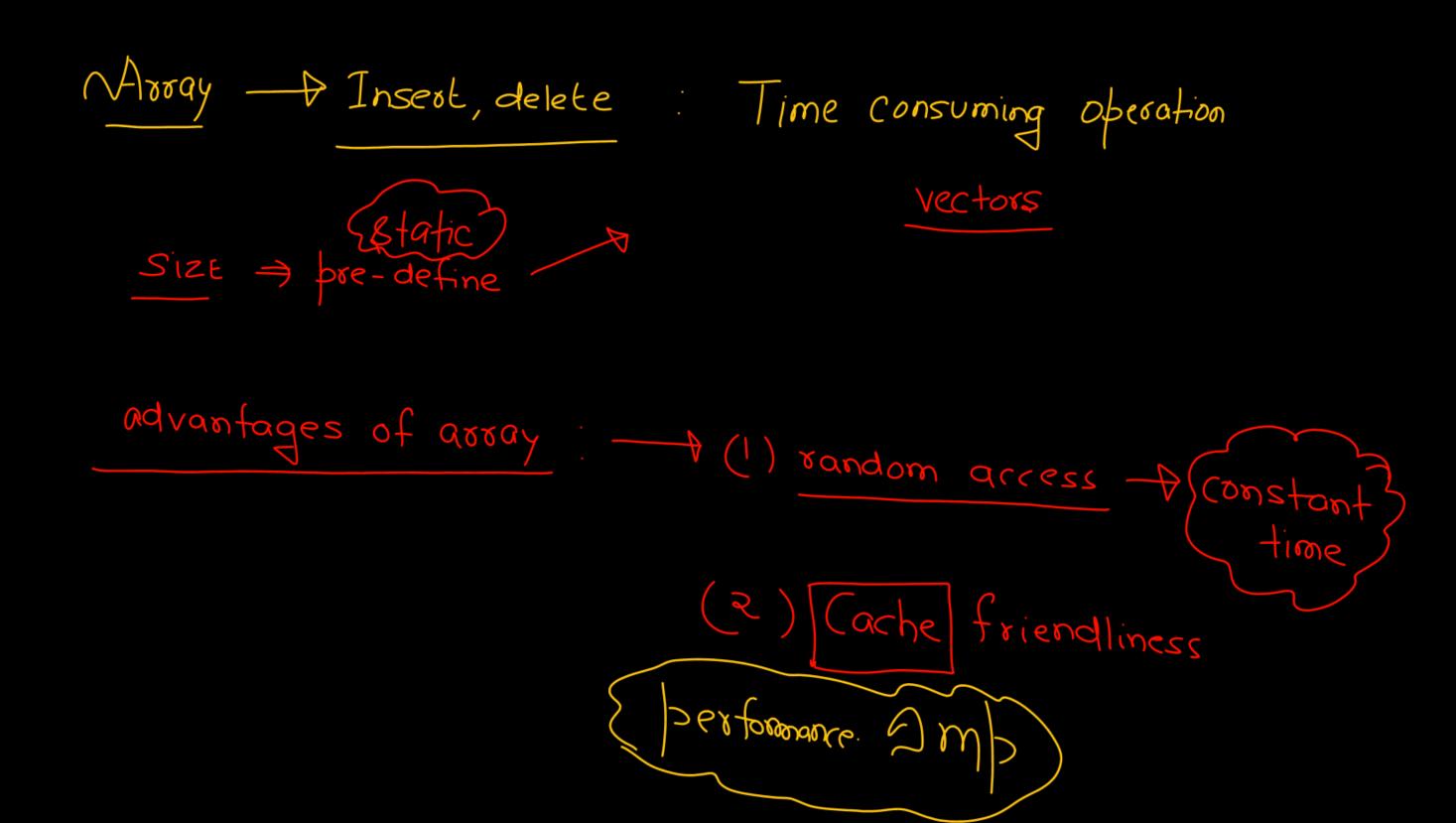
$$A[2] = A[3]$$

$$A[3] = A[4]$$

$$A[i] = A[i+1]$$

$$\eta = \eta - |i|$$

n element Past element => (n-1)



Structure

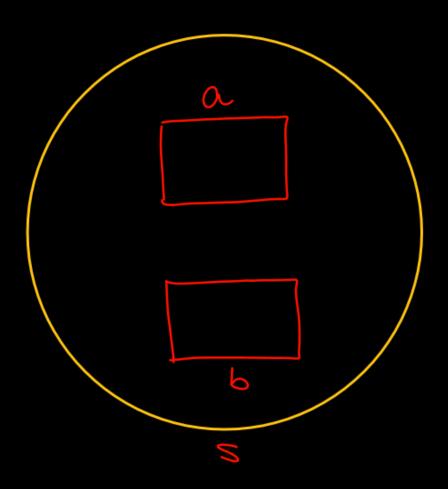
struck my-struct {

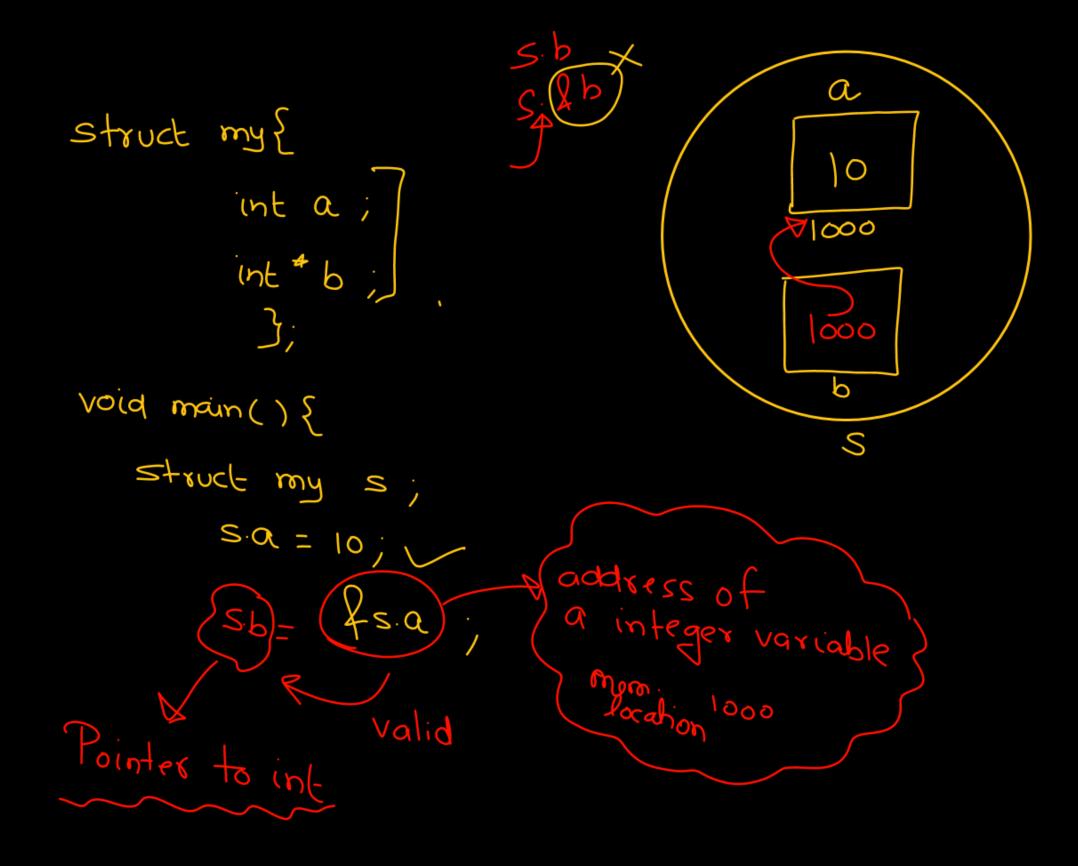
int a; diff type float b;

3;

void main() {

struct my-struct (s)





struct Panpaj {
int a;
float *Ptr;

struct Pankaj {

int a;

char * ptr;

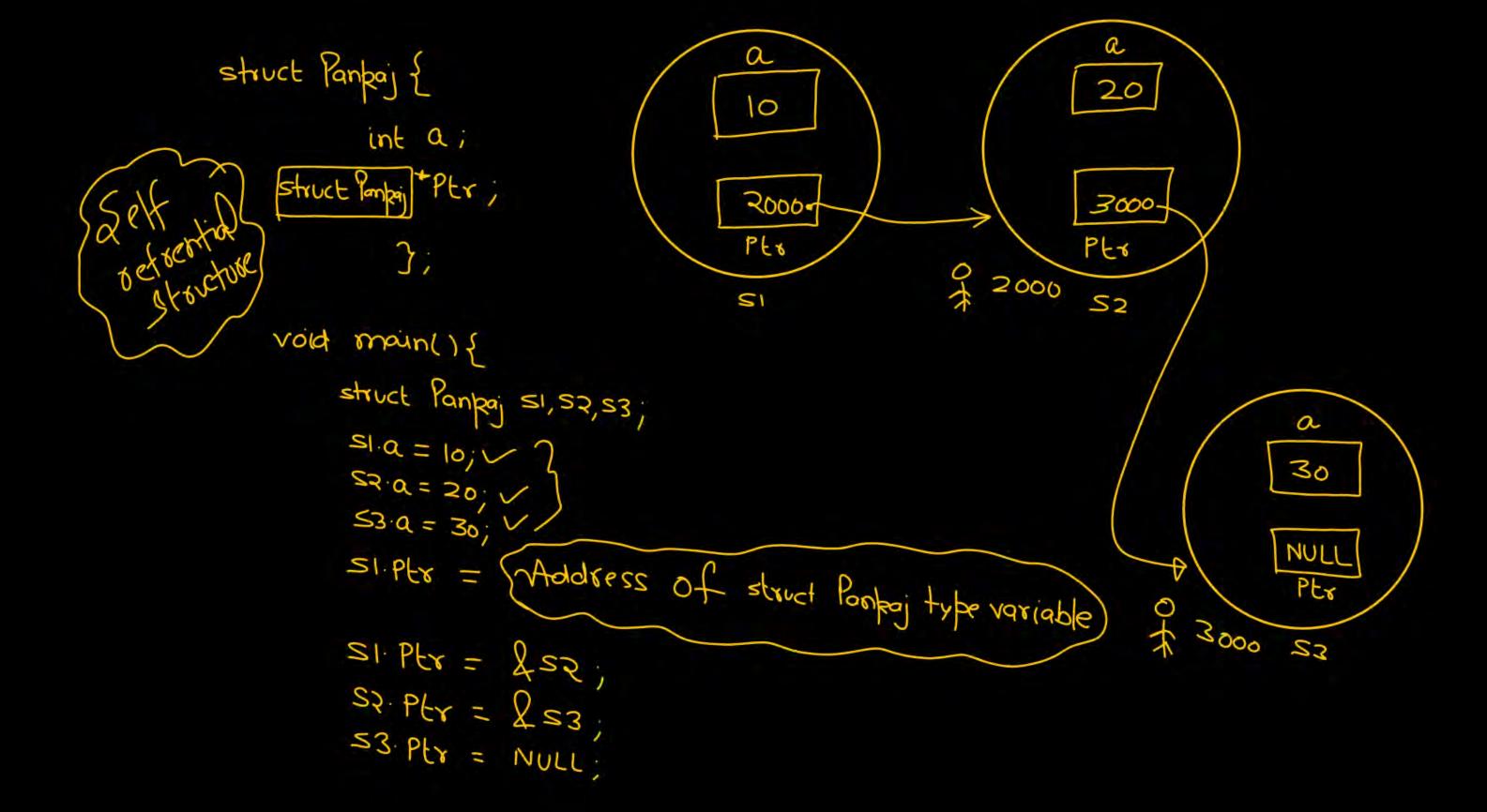
3

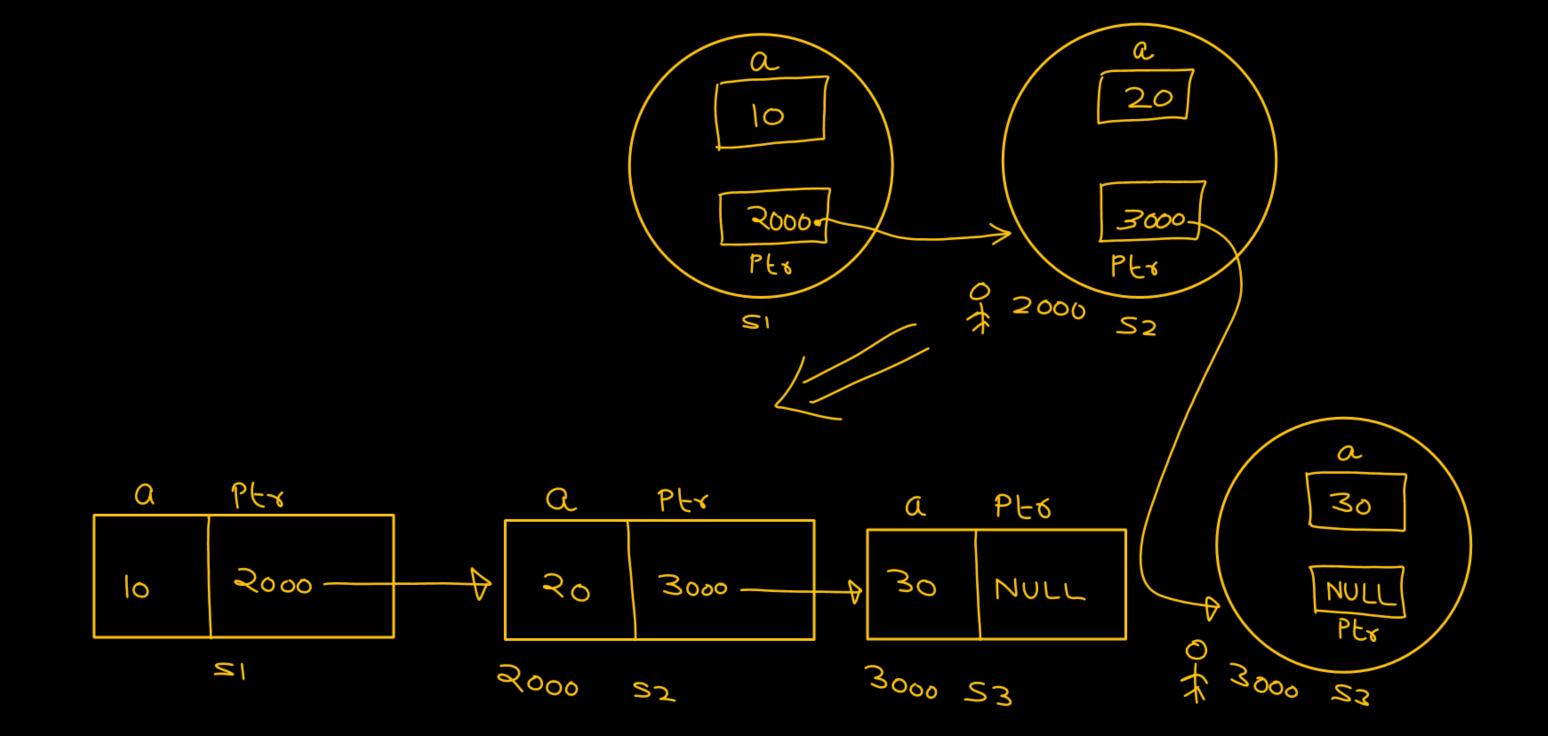
struct Pankaj {

int a;

struct Pankaj * Ptr;

};





Linked List

A linear data structure, which is collection of elements

Called nodes and each node is divided into 2 farks:

(1) data bask

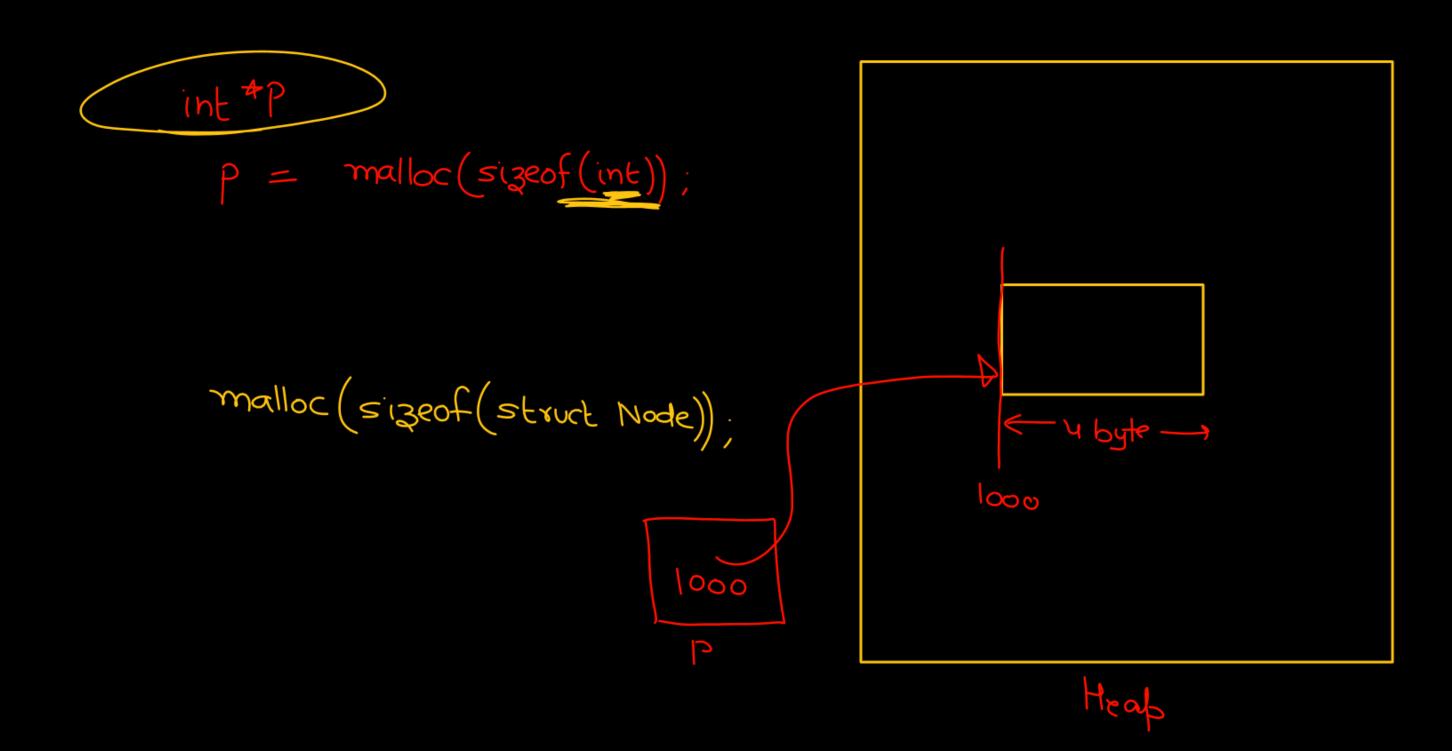
(2) contains address of next node in L.L.

linear d.s D linked Arrays 30 MULY 5126 4096 10 2030 20 5126 Implicitly 4096 Linear Explicitly Order maintained Paise pointer

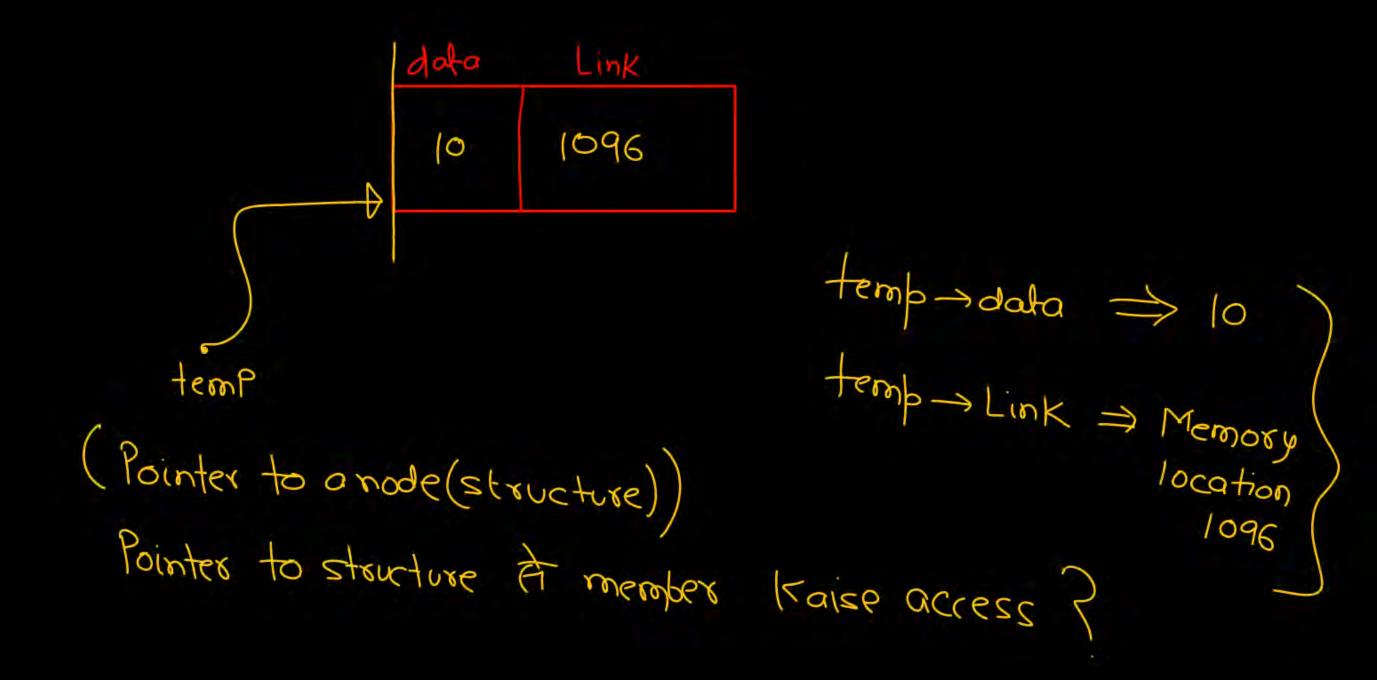
struct Node { int data; Struct Node * Link; 3, void Insert (> local variable Ztruct Node (s); 2000

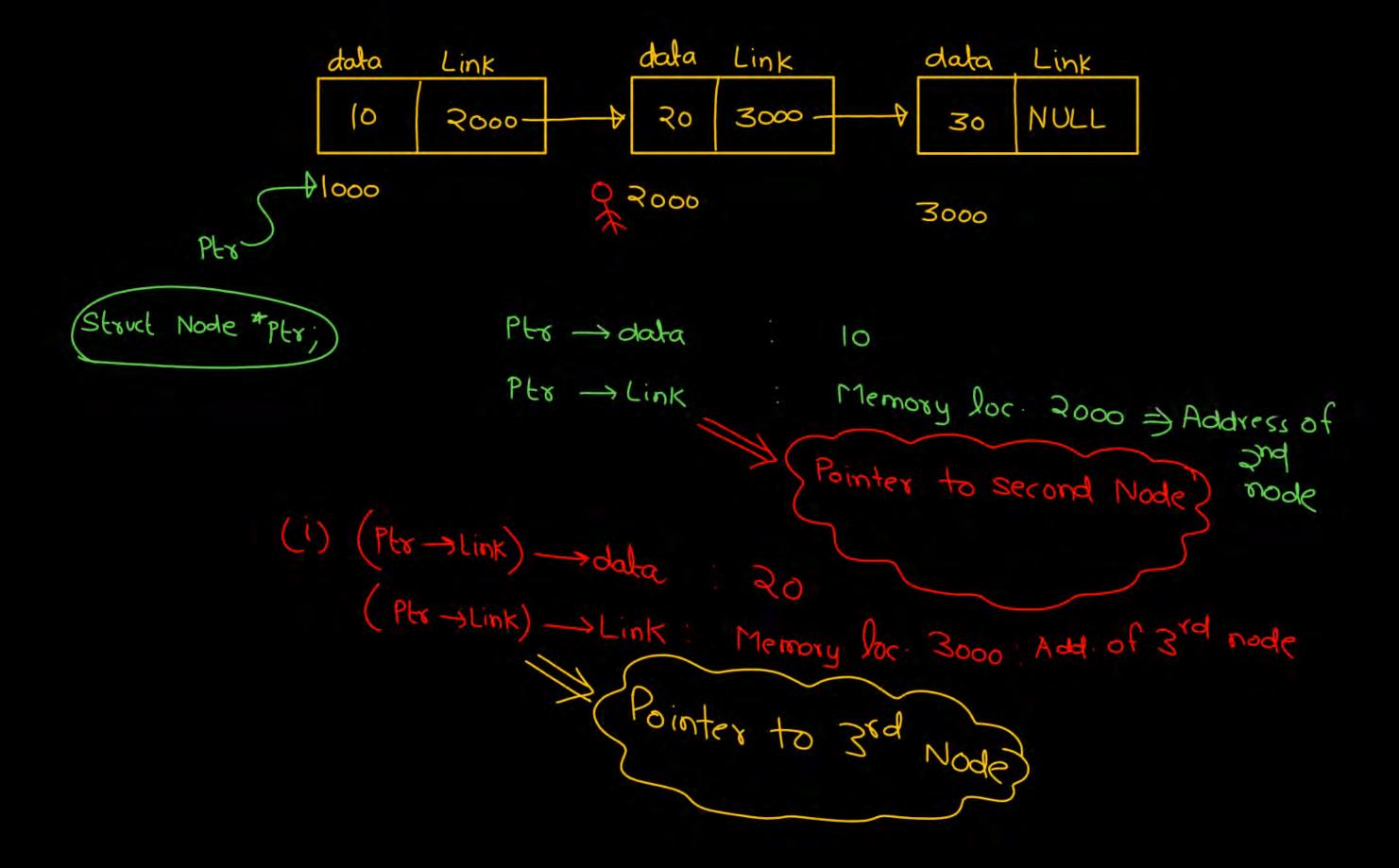
Void main(){

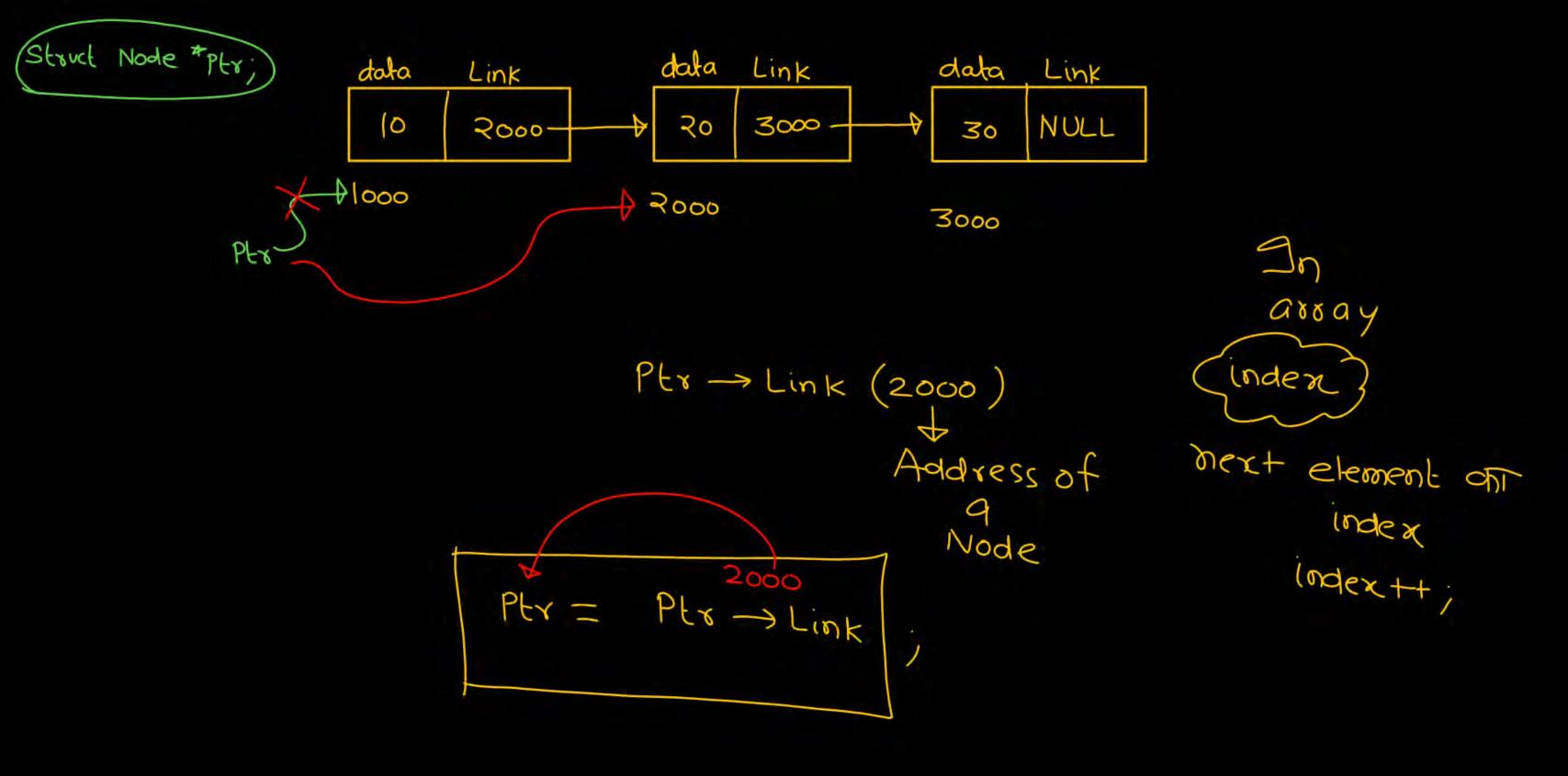
Insert (100);

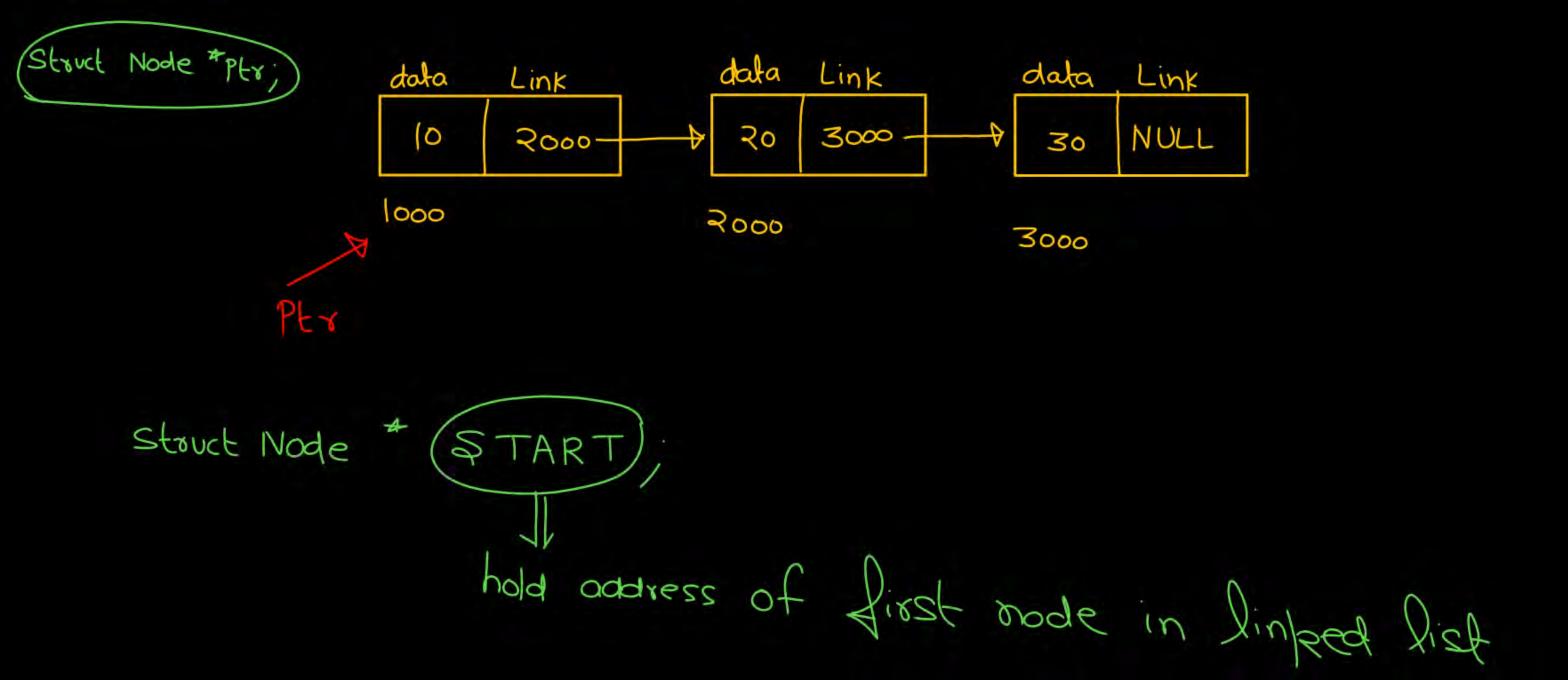


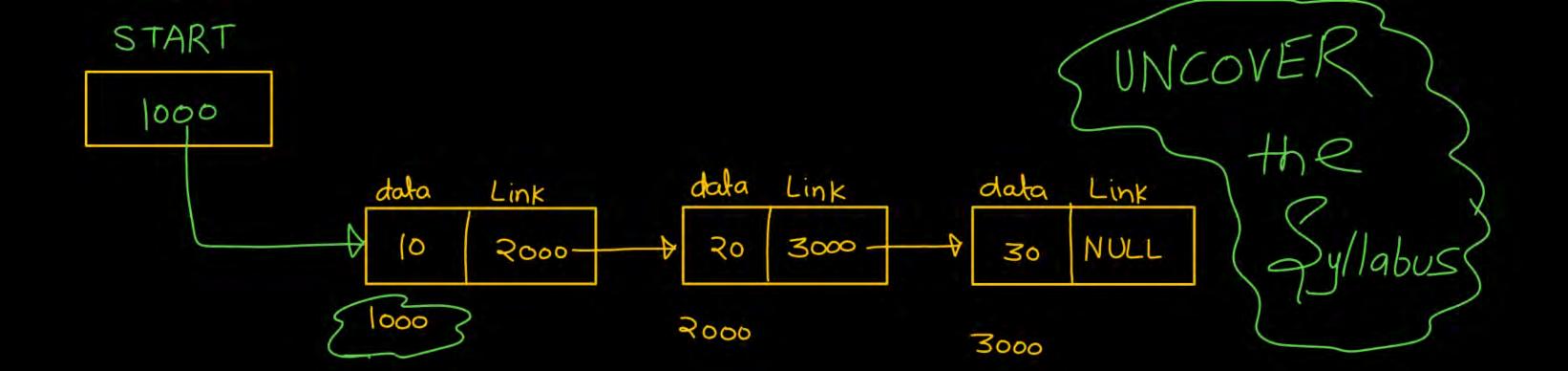
Struct Node{ int data; struct Node + Link; struck Node # temp; temp = malloc(sizeof(struct Node)); Link data 1000 1000 temp











PYQQ

(ive)

1000 elements



