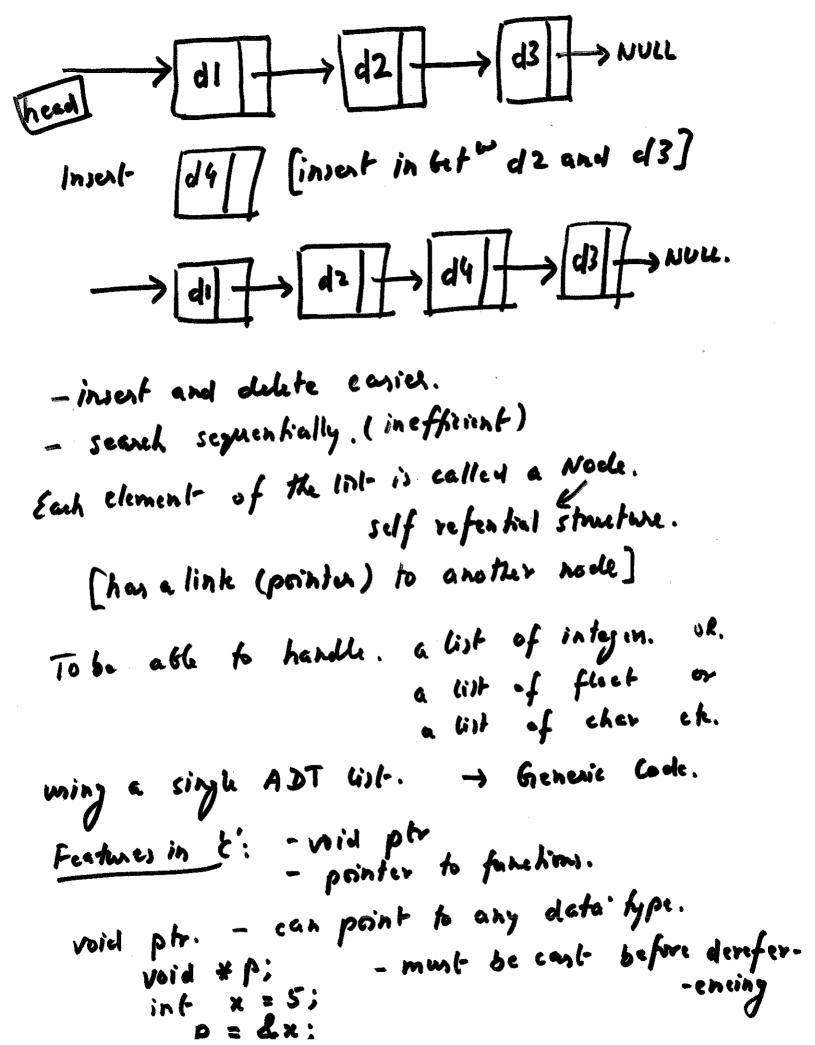
ADT: data declaration meaning ful openetions for the detactipe. - implementation of these operation and storage of data may be hidden.

(encapsulation or data hieling) ADT operations. - interface to public functions. Ex. add-to-list (node) (reate-list () List ADT delete. from. List (nock) destroy-list () find-in- (ist (node) List ADT in 'C'. ADT implementation. (1) Array implementation. int element + unique key -> index into Array.

(integer) - searching could be easy (indux)
- insert and delete (complex) A : [[] Linked List Implementation.

Each element contains date and (1 or more) links.

point ir h next element.



7. prinff ("Integer = %4 \n", \*P); (油井) \*(int \*)P pointer to function. void fun (wid) name of the function. "fun" is a pointer. 1 int main (void) 1 void fun (void) - void (\*f1) (void); > void \*fio(wid); ] g void + f10 (nia); ] Bint for bun (int, int); sun (float); f1 = fun; > > ADT: to find the largest value in the list?

Application / usir. ADT. - implementation. implement a list wants uhlitu. - storege of list [void \*] implement a compare - maintenance. of fundins. (linking) list (G. comper.) - utility fn. such as find... (node 1) [-create Mode] - Larger (nodel -> dataPtr.)
compare nodel -> [ wid & data Ph. ]

(struct mode & link.]