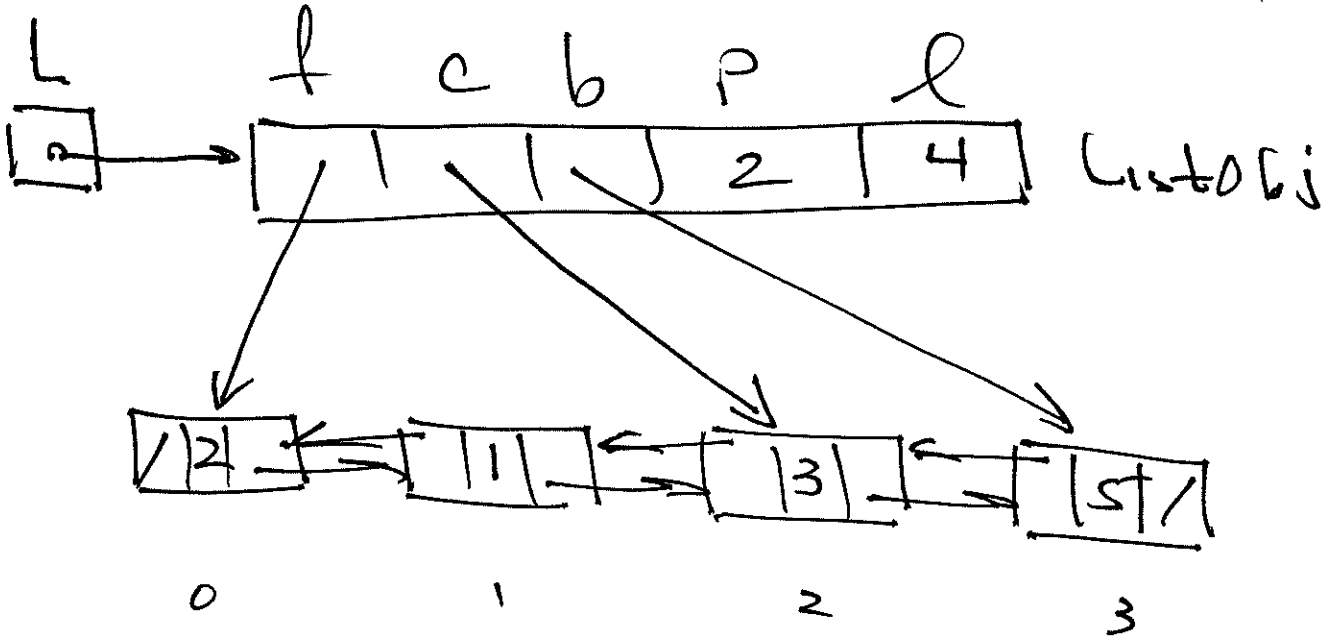
CSE 101 4-7-26

Pa1: List ADT

Ex

client: L=(2, 1, 3, 5)

inside:



Part: client WWords.c

Ex how to insert array indices into a list.

0 ✓ 1 ✓ 2 ✓ 3 ✓

A = ["c", "a", "b", "d"]

want: L = (1, 2, 0, 3)

start: L = ( )

insert 0: L = (0)

insert 1: L = (0)

L = (1, 0)

insert 2: L = (1, 0)

L = (1, 0)

L = (1, 2, 0)

Insert 3: L = (1, 2, 0)

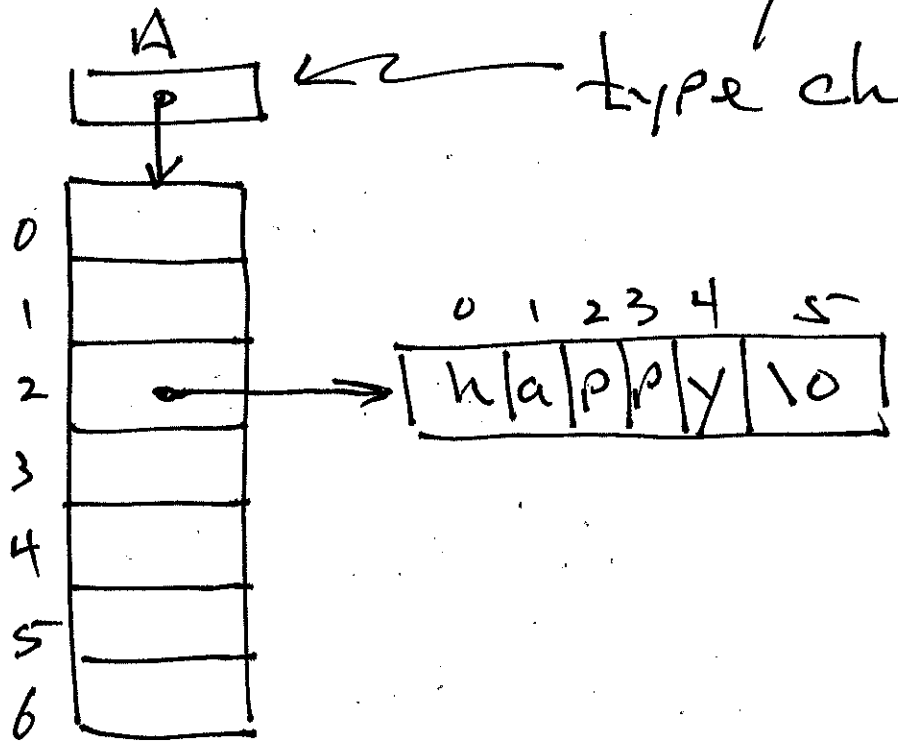
L = (1, 2, 0)

L = (1, 2, 0)

L = (1, 2, 0)

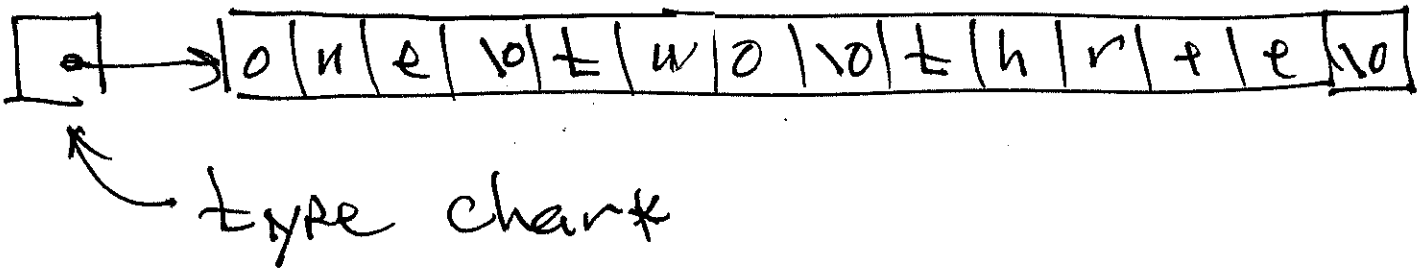
L = (1, 2, 0, 3)

How to build Array of strings?

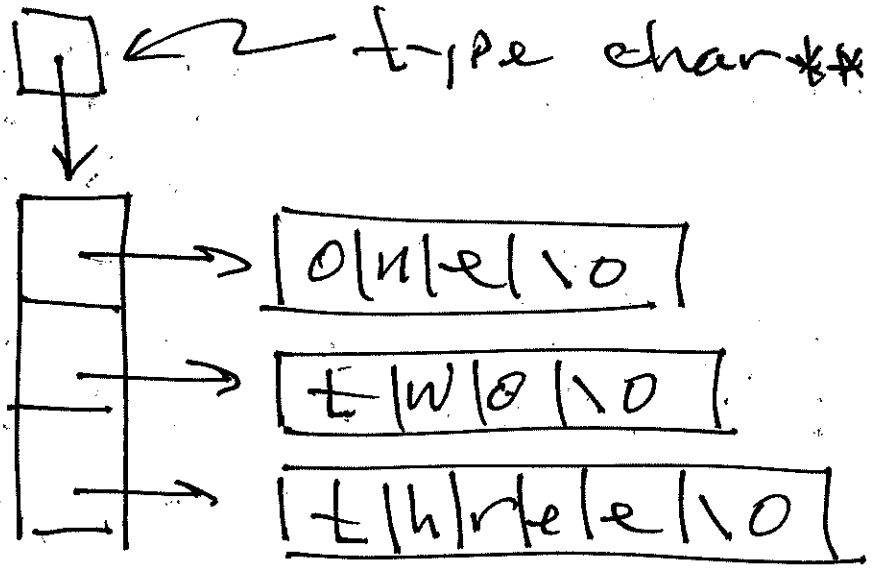


See FileIO.c

Builds:



Pal should build



• Graph Theory Handout

• Walk from u to v:

$$u = x_0, x_1, x_2, \ldots, x_k = v$$

(x_1, x_2: adjacent)

if $u = v$, this is a closed walk.

We call k the length of walk.

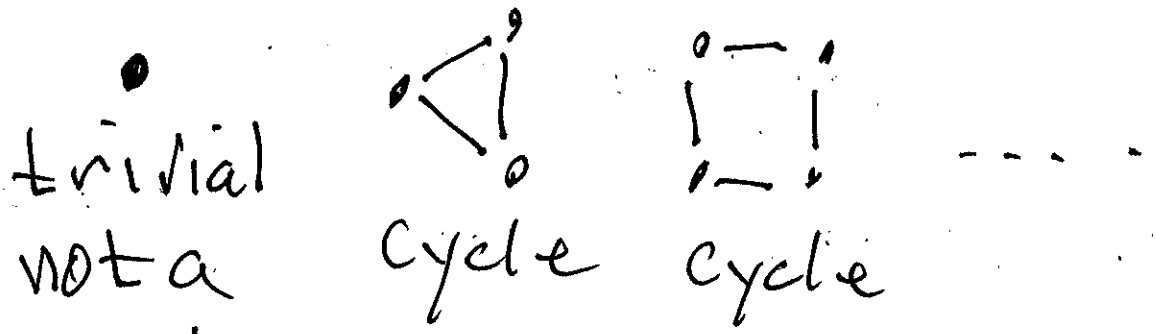
if $k = 0$, walk is called trivial

• Trail from u to v:

no repeated edge traversals

- Path from u to v:
  no vertex is visited more than once, except possibly if $u = v$.

- Cycle: a non-trivial closed path.



Defn $G = (V, E)$ is connected iff for all $u, v \in V$: u is reachable from v and v from u.

Defn $G = (V, E)$ is acyclic (forest) if it contains no cycles.