

CSE 101 1-8-26

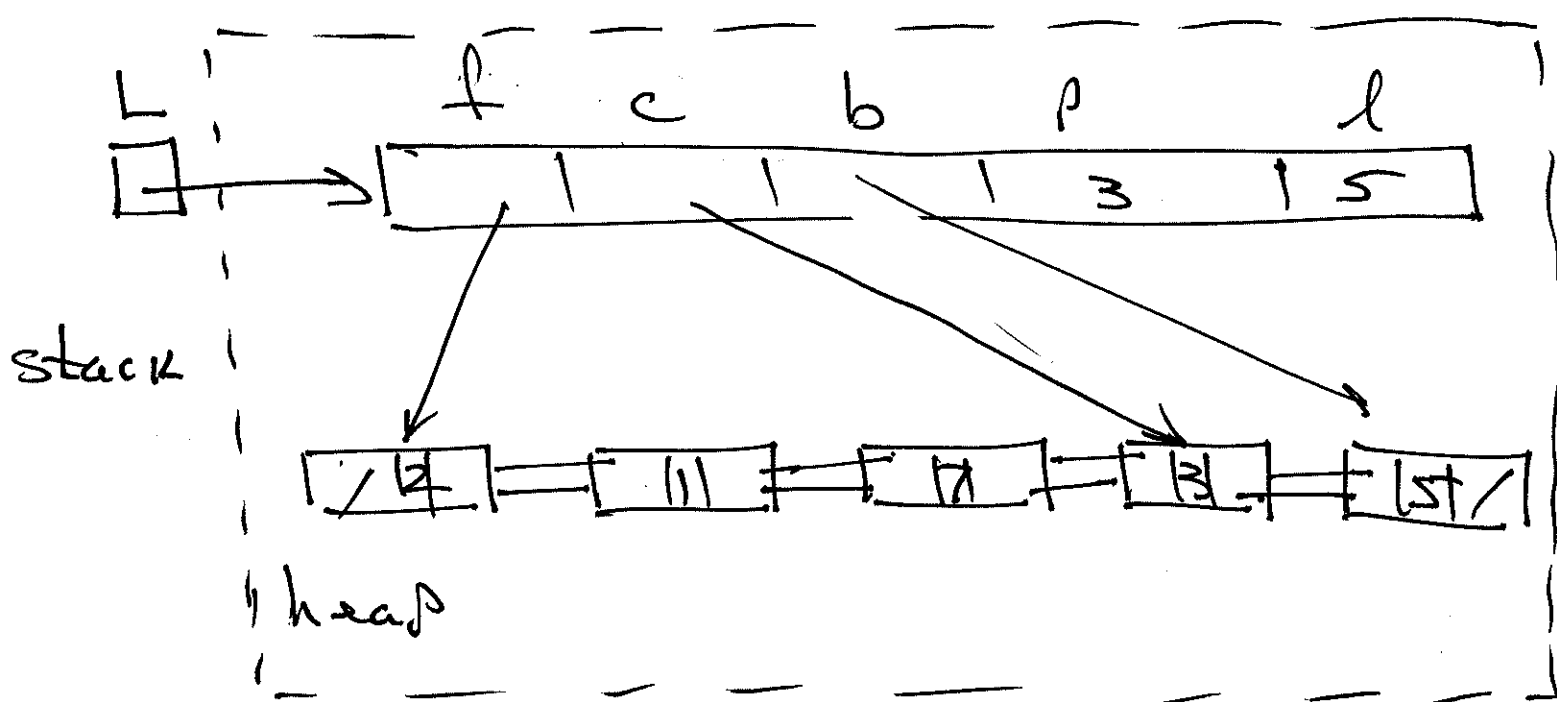
11

Ex

client: (2, 1, 7, 3, 5)

0 1 2 3 4

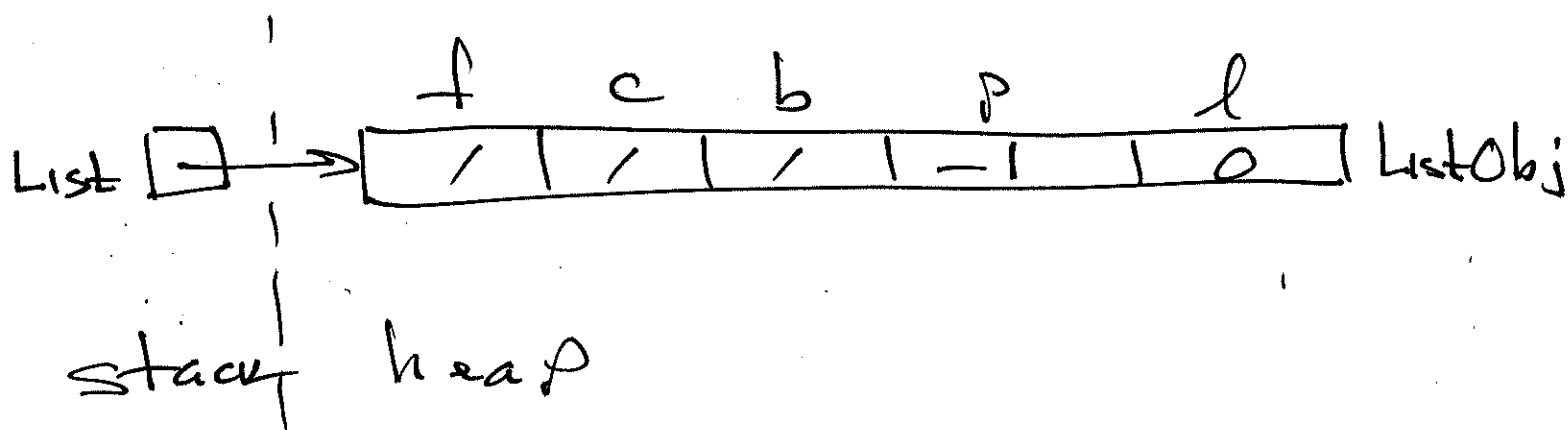
inside:



Ex. empty state:

client: ()

inside:

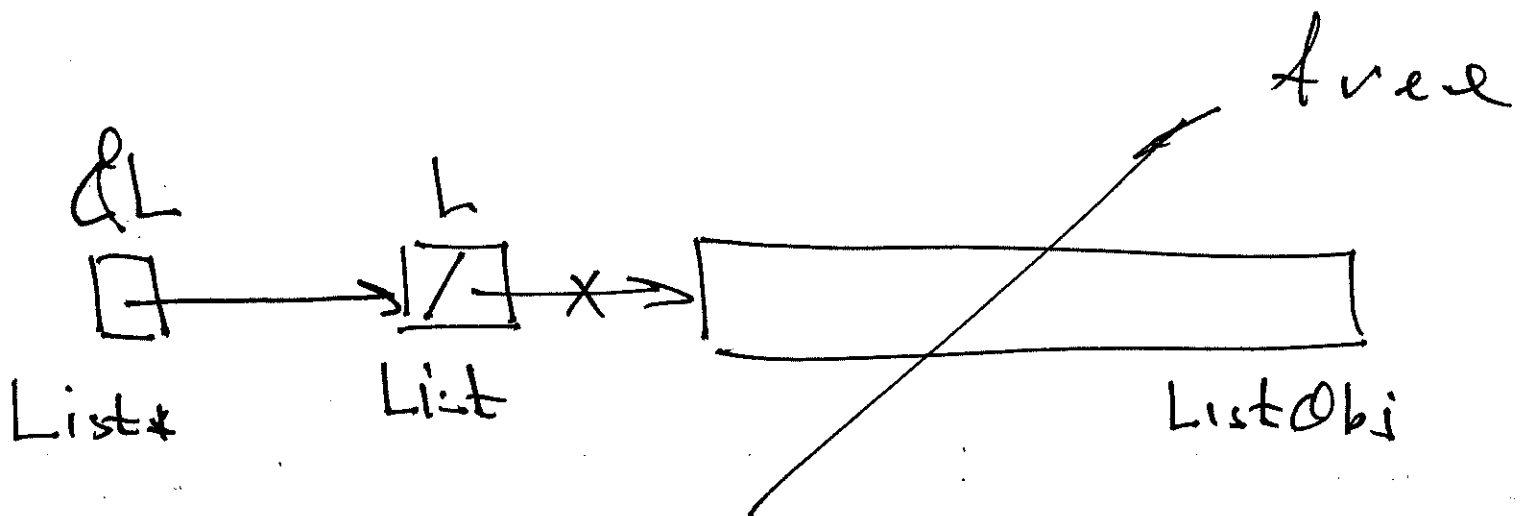


note:

typedef A B;
alias
for
A

Ex. call to destructor

`freeList(&L);`



Par: client of List ADT

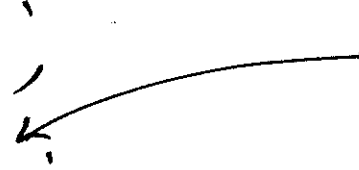
Don't use 'variable length Array'

```
int n;
```

```
n = -----;
```

```
int A[n];
```

stack



Instead use heap array

```
int n;
```

```
n = -----
```

heap



```
int* A = calloc(n, sizeof(int));
```

```
...
```

```
free(A);
```

How to 'indirectly' sort array
of strings?

LS

Ex.

$A = (\overset{0}{\checkmark} "c", \overset{1}{\checkmark} "a", \overset{2}{} "b", \overset{3}{} "d")$

Want

$L = (1, 2, 0, 3)$

start : $L = ()$

insert 0 : $L = (0)$

insert 1 : $L = (\underline{0})$

$L = (1, \underline{0})$

insert 2: $L = (1, 0)$

$$L = (1, \underline{0})$$

$$L = (1, 2, \underline{0})$$

insert 3: $L = (1, 2, 0)$

$$L = (1, \underline{2}, 0)$$

$$L = (1, 2, \underline{0})$$

$$L = (1, 2, 0)$$

$$L = (1, 2, 0, 3)$$

