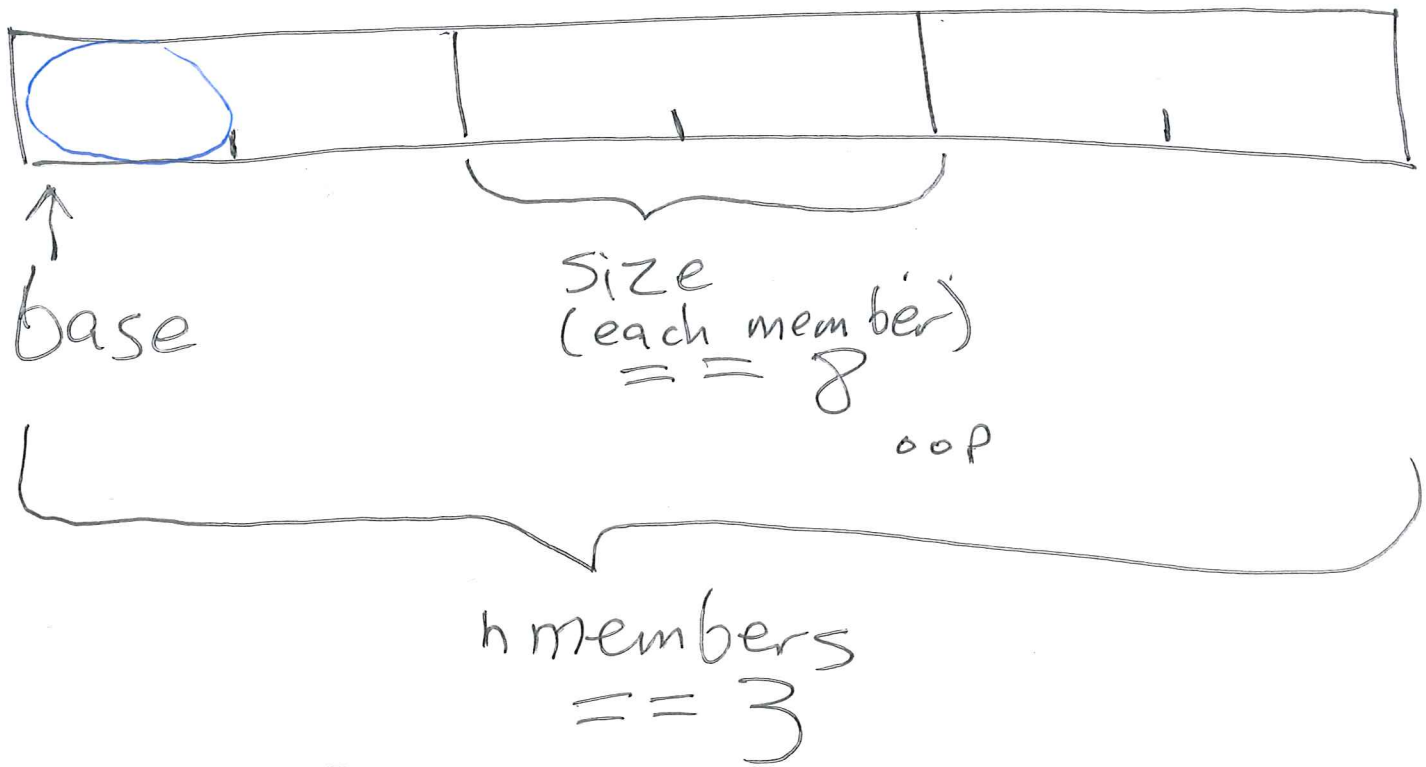
Objectives for 11/8/2017 (Mon)

- Linked lists: freeing
  - iterative – *see free_list_iterative.c*
  - recursive – *see free_list_recursive.c*
- qsort(...) with compare_fn
  - Relation to HW12:
    - pq_enqueue(...) takes a generic compare_fn
    - destroy_node(...) takes a generic destroy function which follows similar principles

Note: The free_list_recursive.c example was posted after class.

qsort(...) — standard library function to sort array of any type

Point objects (with .x and .y fields)



{.x = 5, .y = 6} {.x = 6, .y = 5}

compare_fn takes <u>address</u> of lhs and rhs for any comparison.

size 0: head head=NULL

free(NULL);

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size 1: head

free(head);

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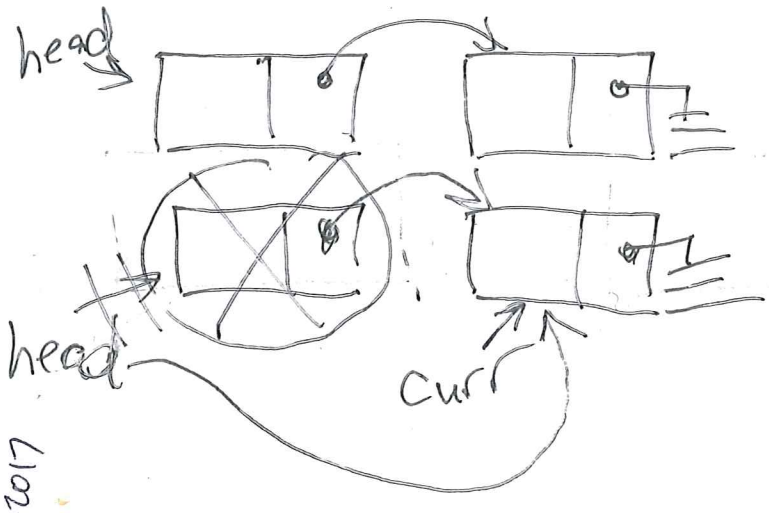
size 2: May be NON-RECURSIVE (ITERATIVE) // free head until empty

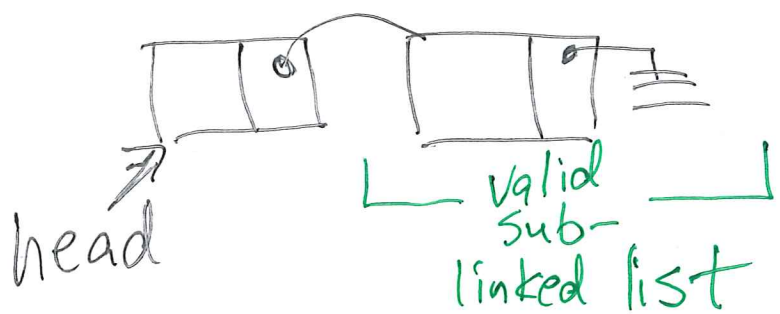


RECURSIVE

// free sublist

head->next

// free head



base case: size 0 or 1