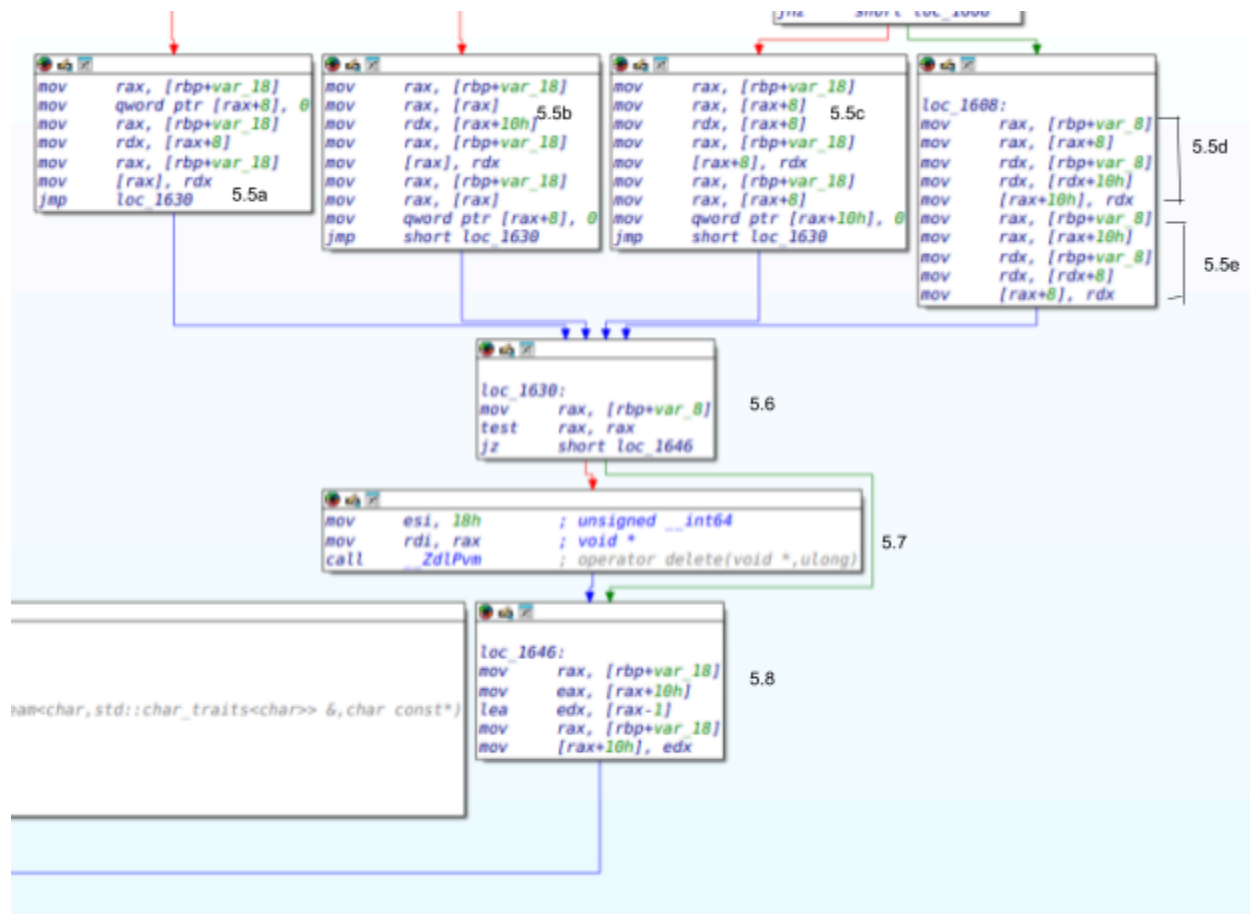


4.

- 4.1
  - Compares the  $i$  to the given index to see if the requested indexed node is in the list
- 4.2.
  - 4.2a. Checks if the current node exists and going to the OOB case if it doesn't exist (NOTE: this is handled within the loop as the loop only keeps going if current exists, likely could be optimized out)
  - 4.2b. Increments  $i$  by 1 and sets current to current->next

5. These handle the various current node cases, whether curr is equal to the head of the list, the tail of the list, or both.

- 5.1. Checks if current node is head (for both case)
- 5.2. Checks if current node is tail (for both case)
- 5.3. Compares current node to head for its own case
- 5.4. Compares current node to tail in its own if case



- 5.5a. Curr = both head and tail, sets nullptr to head and tail
- 5.5b. Curr = head case, sets head->prev to null and head to head->next
- 5.5c. Curr = tail case, sets tail->prev to null and tail to tail->next
- 5.5 d/e.
  - 5.5d. Loads in curr->prev->next and sets that equal to curr->next
  - 5.5e. Loads in curr->next->prev and sets that equal to curr->prev
- 5.6. Checks if curr exists before deletion (after loop finishes)
- 5.7. Delete current node
- 5.8. Loads in the list and reduces the lists length by 1

