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$$f(n \ni n + ) = 0$$

$$n = 1 \rightarrow ["o", "s"]$$

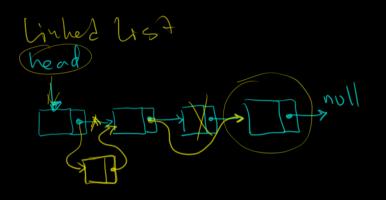
$$n = 2 \rightarrow ["o", "s"]$$

$$n = 3 \rightarrow ["opo" opi (aio" oii" ooo" ooi" oii" oii" oo$$

$$Sn = ["opo" opi (aio" oii" ooo" ooi" oii" oii" oo$$

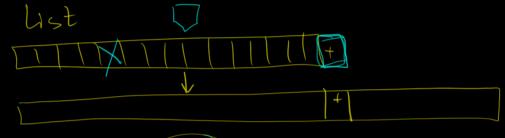
$$Sn = ["o"]$$

$$Sn = ["o"]$$



add (0(1)





access O(1)

add

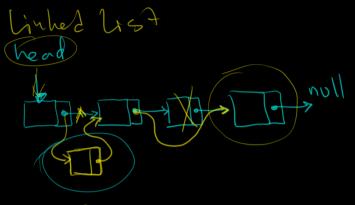
remove

```
public int length() {
   Node curr = head;
   int len = 0;
   while (curr != null) {
      curr = curr.next;
      len++;
   }
   return len;
}

private int lengthR(Node node) {
   return (node == null) ? 0 : 1 + lengthR(node.next);
}

public int lengthR() {
   return lengthR(head);
}
```

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(1)  $\times$ 

(2) Kar head

(5) head = curr

replace (x, y)
add Into (x,
add After
add Bfore

X=5 X=6 List J->(J->()-XJ-XJ-[Herable]

add into the list

linhed list itsex doesn't make my sence

(i) lact get (index) -> A node 5/11/0

11/5/ \*\* 7/9

1 Find Wide (f) => Nide

1 create

3 rewire links

```
private Optional<Node> find(IntPredicate f) {
}

public boolean addAfter(int x, IntPredicate f) {
   Optional<Node> found = find(f);
   found.ifPresent(node >> {
     Node newNode = new Node(x);
   });

   return found.isPresent();
}
```

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remove (f: Jut > Bool)

Optivites found

