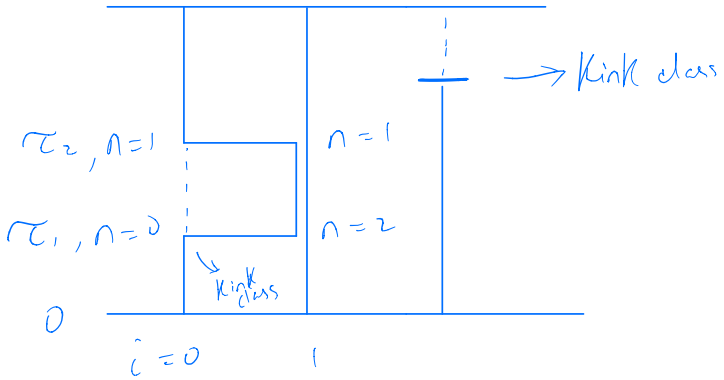



```
data_struct = np.array( DoublyLinkedList(),   ↗ for site=0   ↗ Worldline class
                        DoublyLinkedList() )
                                              ↳ for site=1   ↳ Worldline class
```

Node.$\tau_{aux}$

Node.n

Node.src

Node.dest

Make kink a class

Worldline class:

Wl.firstKink

Wl.lastKink

Wl.insertion

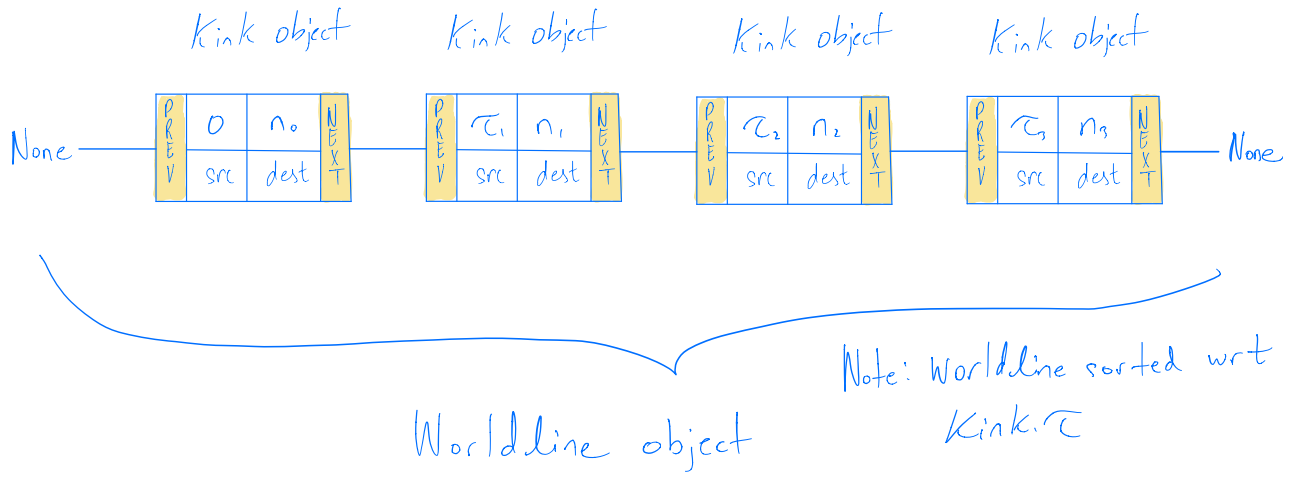
Wl.removal

Wl.traversal

firstKink.prev

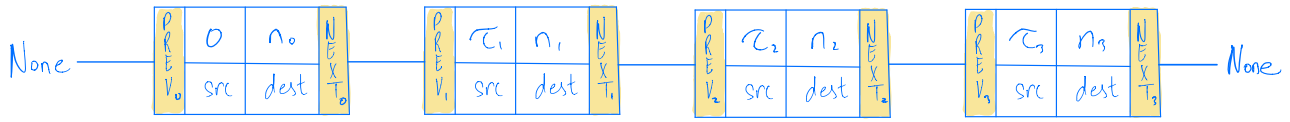
- Do random insertions & removals ToDo!
- Plot old version vs new data structure & compare time.

---




---

Want: Remove $\tau_2$




When curr_kink.τ == $\tau_1 < \tau_2$:

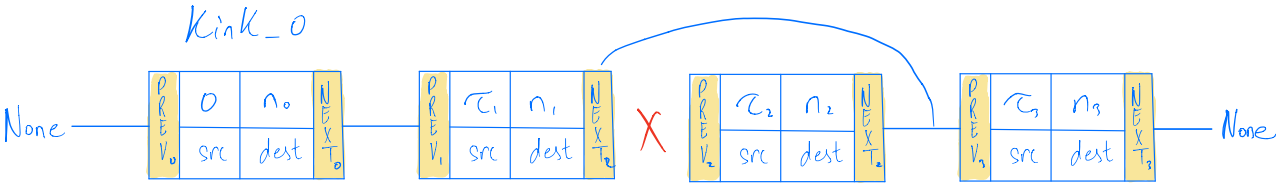
prev_kink = curr_kink

curr_kink = curr_kink.next

We get out of loop & have: curr_kink =


prev_kink =


Set prev_kink.next = curr.kink.next : ☐


Kink_0
None
PREV0
0
n0
src
dest
NEXT0
PREV1
τ1
n1
src
dest
NEXT1
PREV2
τ2
n2
src
dest
NEXT2
PREV3
τ3
n3
src
dest
NEXT3
None