

(link  $v_f \bullet$ )

( $\vdash v_n \bullet$ )

(link  $e_1 e_2$ )

Why do we have to stop?

REACHABILITY

$\approx$

LIVE DATA

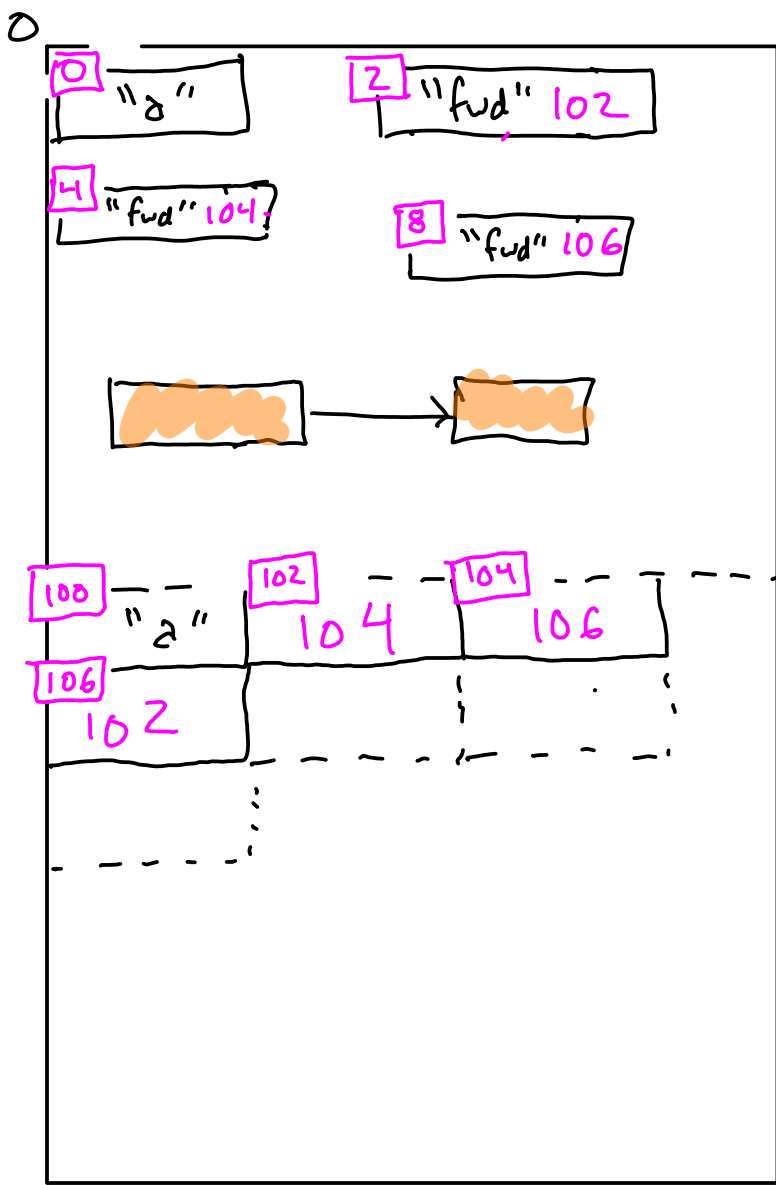
Mark + Sweep

$O(\text{live})$

Step 1: Do graph traversal + mark live data

Step 2: Loop over memory + free not-live data  $O(\text{heap})$

Fragmentation !!



= dead

```

fun copy(loc, heap):
  c = heap.get(loc)
  heap.set(cur-alloc-ptr,
           c)
  heap.set(loc, ["fwd", cur-alloc-ptr])
  move-up(cur-alloc-ptr)
  for each(n from neighbors(c)):
    if not(is-fwd(heap.get(n))):
      copy(n, heap)
  
```

$O(\text{live data})$

```

fun cleanup
  # update back refs
  
```

No fragmentation

