

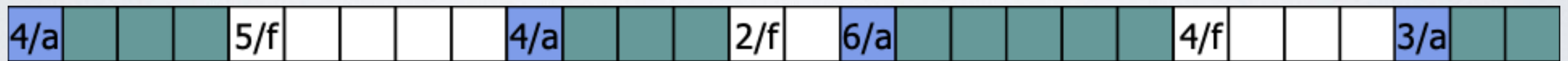
# Tracking memory allocation with **lists**

## Free lists

Maintain linked list of allocated and free segments

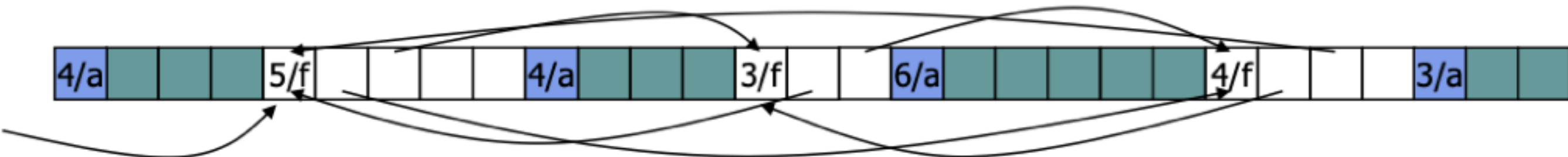
## Implicit list

- Each block has header that records size and status (allocated or free)
- Searching for free block is linear in total number of blocks



## Explicit list

Store pointers in free blocks to create doubly-linked list



# Freeing Blocks

- ➔ Adjacent free blocks can be coalesced (merged)

