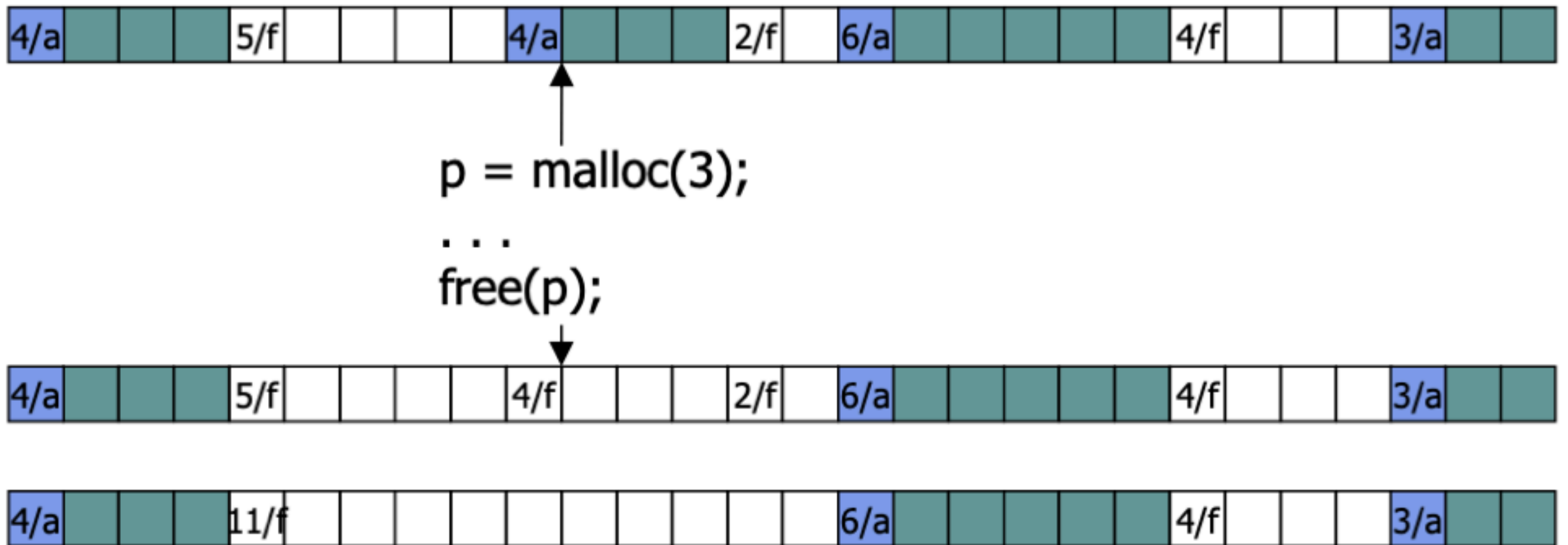


# Freeing Blocks

- ➔ Adjacent free blocks can be coalesced (merged)



# Placement Algorithms

- **First-fit**  
choose first block that is large enough; search can start at beginning, or where previous search ended (a.k.a next-fit)
- **Best-fit**  
choose the block that is closest in size to the request
- Worst-fit  
choose the largest block
- Quick-fit  
keep multiple free lists for common block sizes
- **Buddy systems**  
round up allocations to power of 2 to make management faster