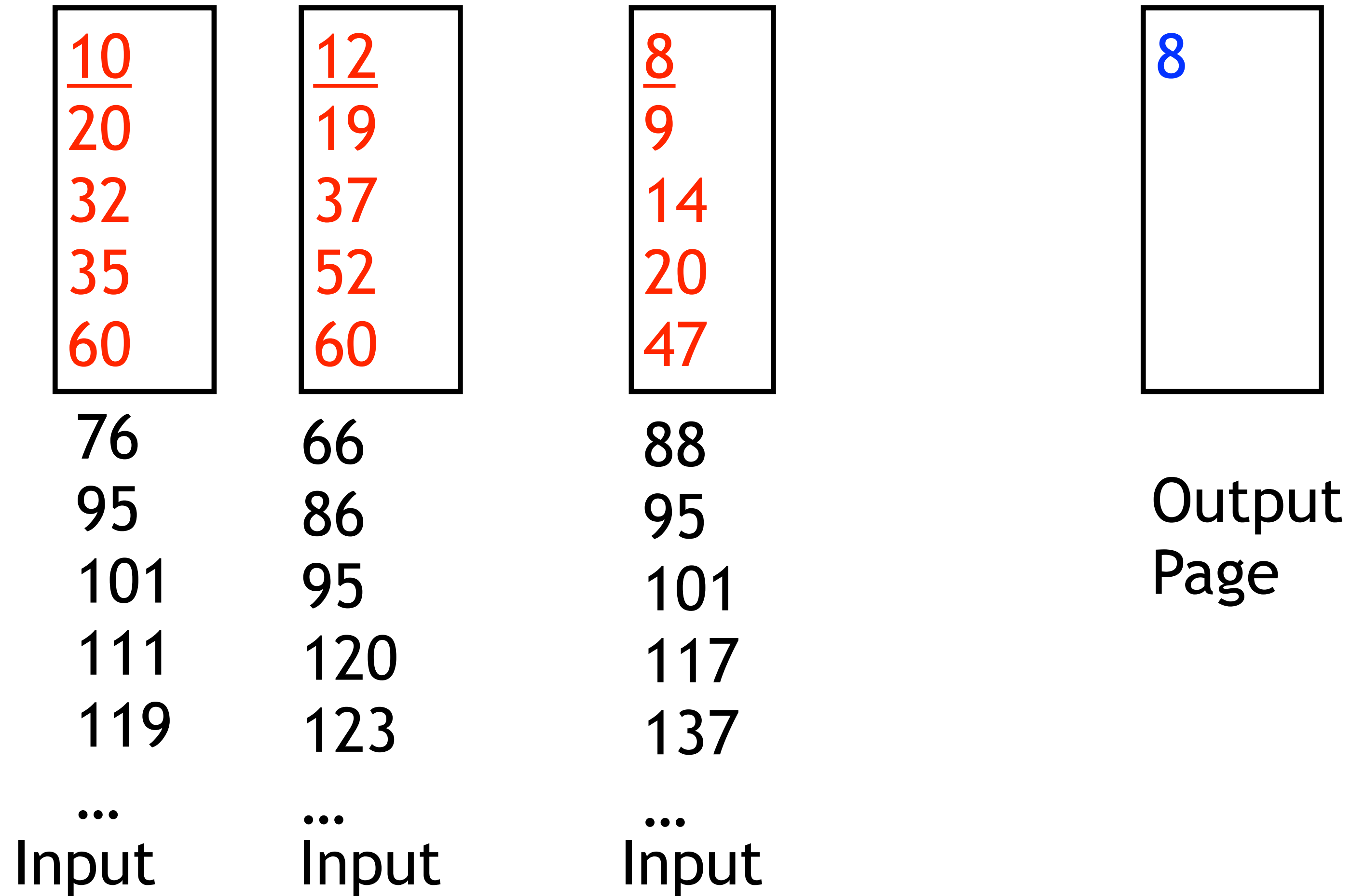


# Homework 4 Comments

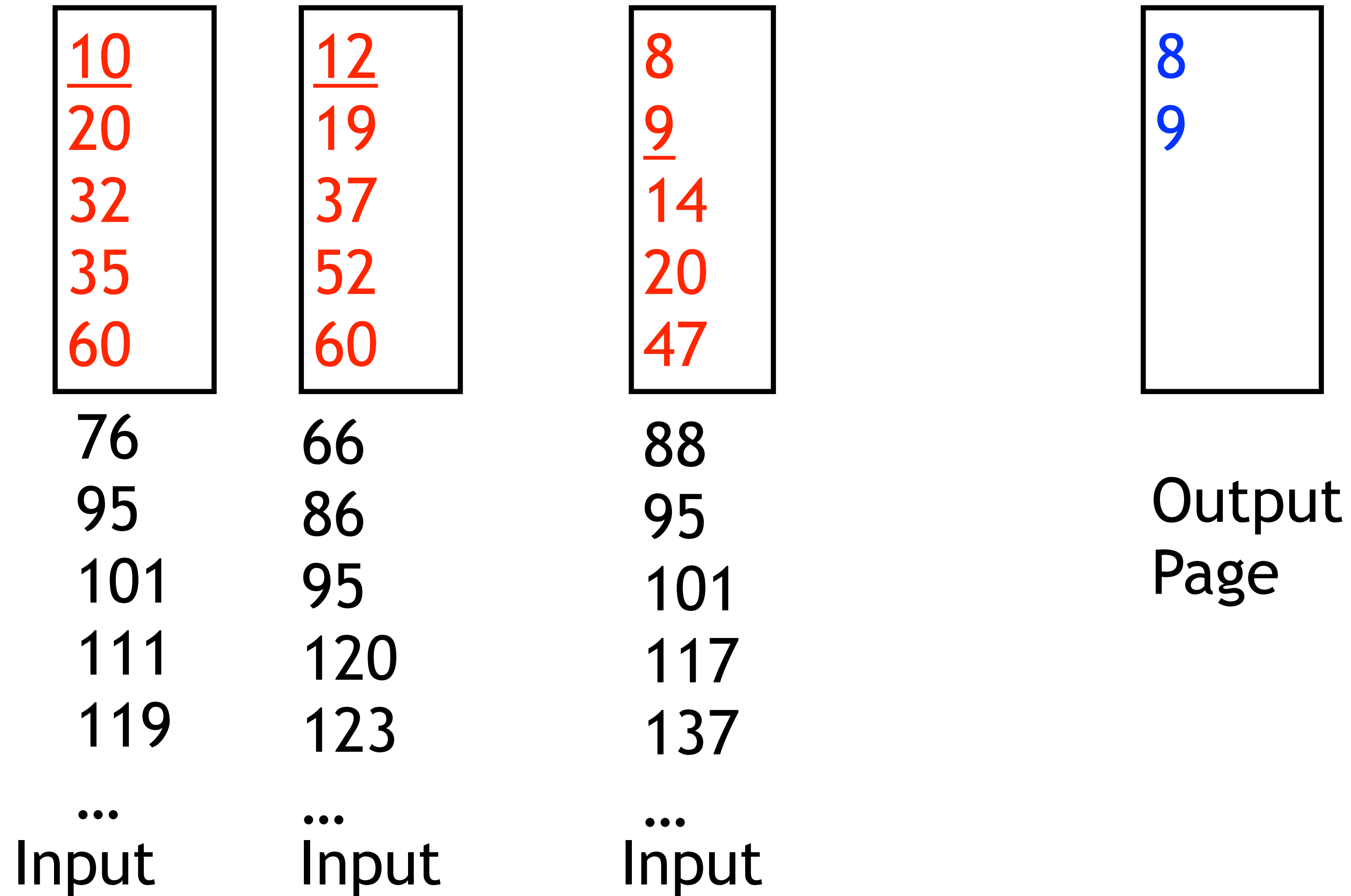
# Example

- 300 Integers
- 5 Integers per page
- 4 page buffers
- Partial Sort: Sort 20 integers at a time creating 15 sorted sequences ( $\text{ceiling}(300/20) = 15$ )
- First Merge Phase: Merge 3 sorted sequences into 1 creating 5 sorted sequences ( $\text{ceiling}(15/3) = 5$ )
- Second Merge Phase: Merge 3 sorted sequences into 1 creating 2 sorted sequences ( $\text{ceiling}(5/3) = 2$ )
- Third Merge Phase: Merge 3 sorted sequences into 1 creating 1 sorted sequence ( $\text{ceiling}(2/3) = 1$ )

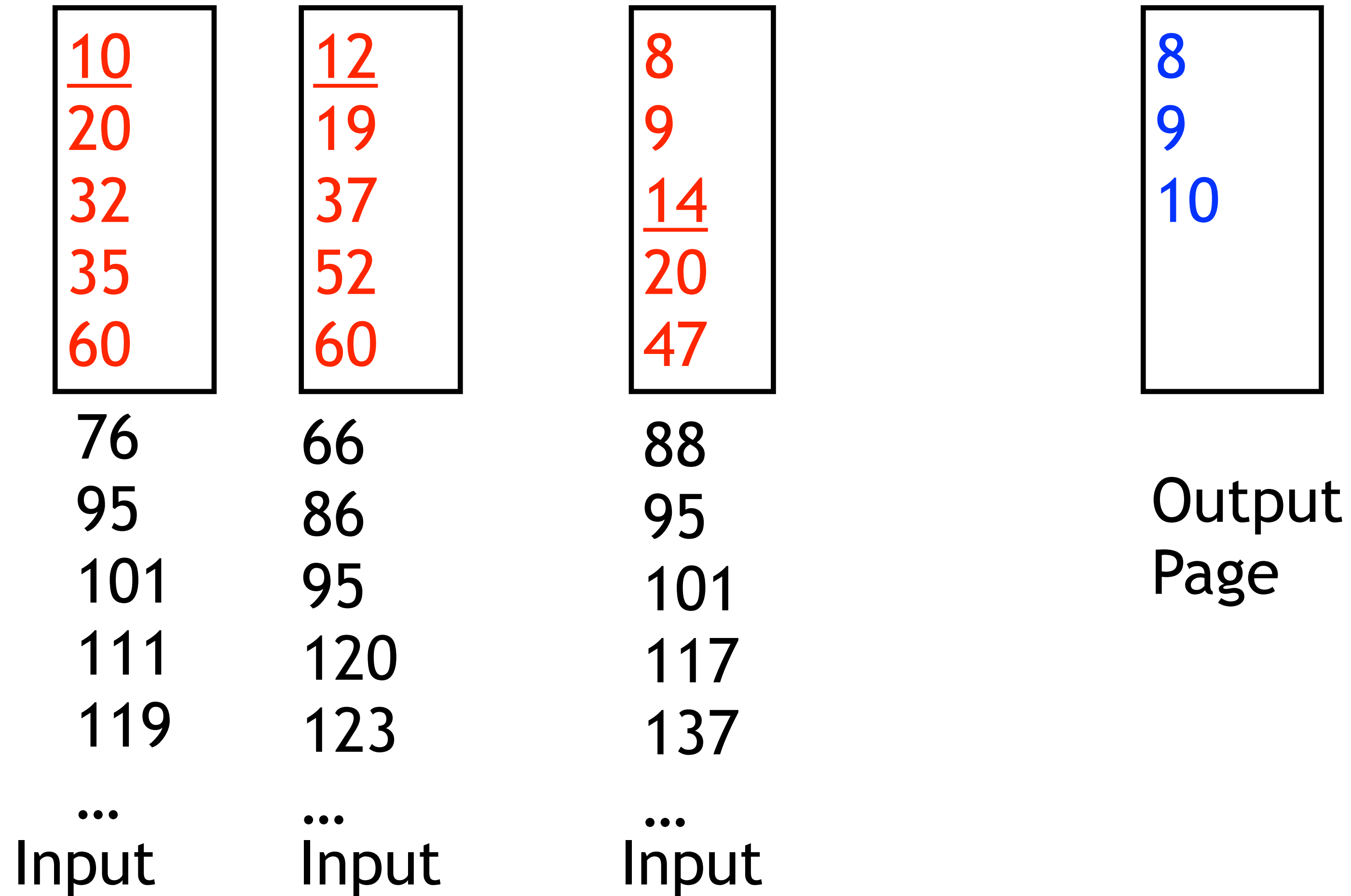
# Merge Example



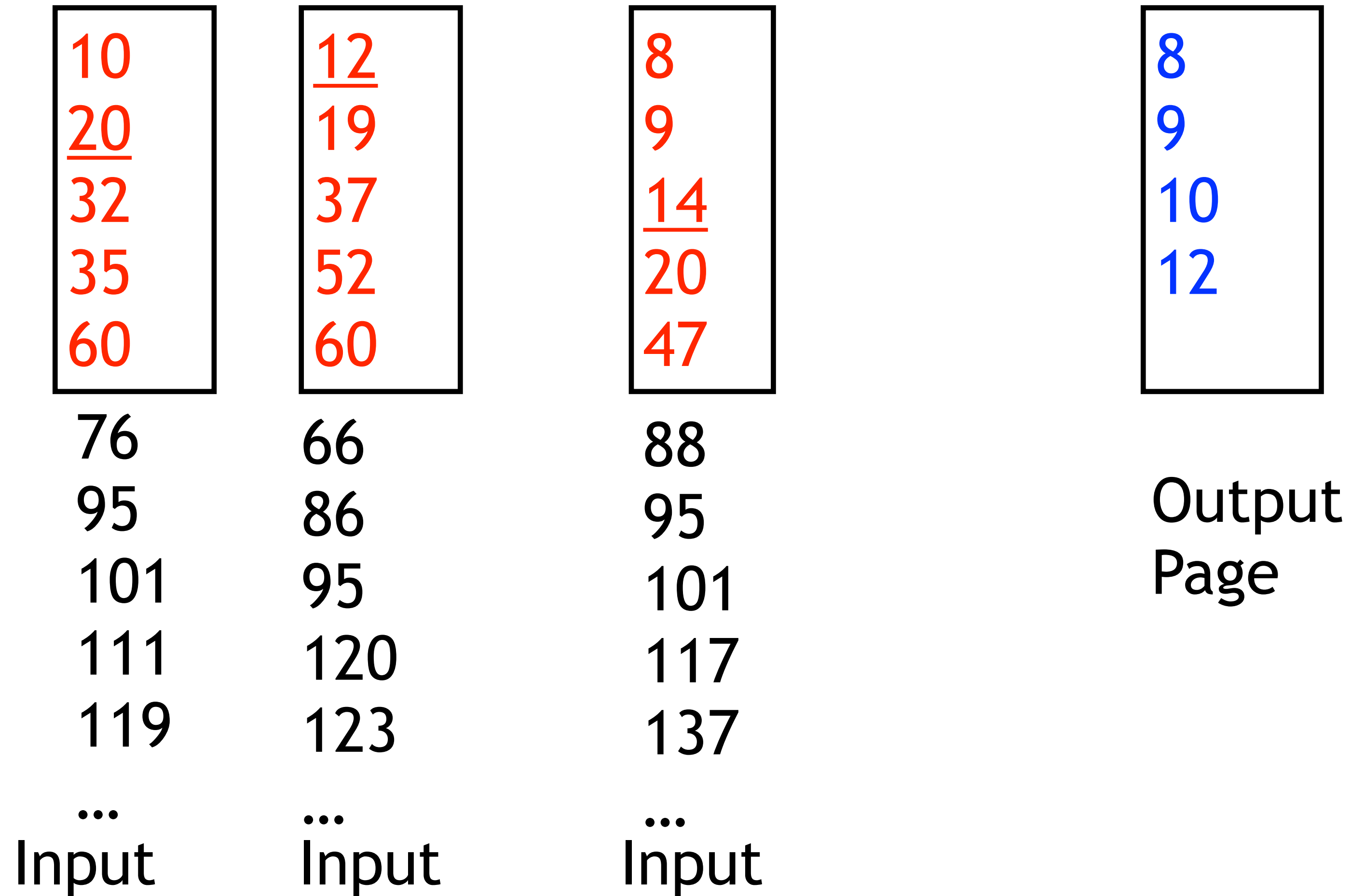
# Merge Example



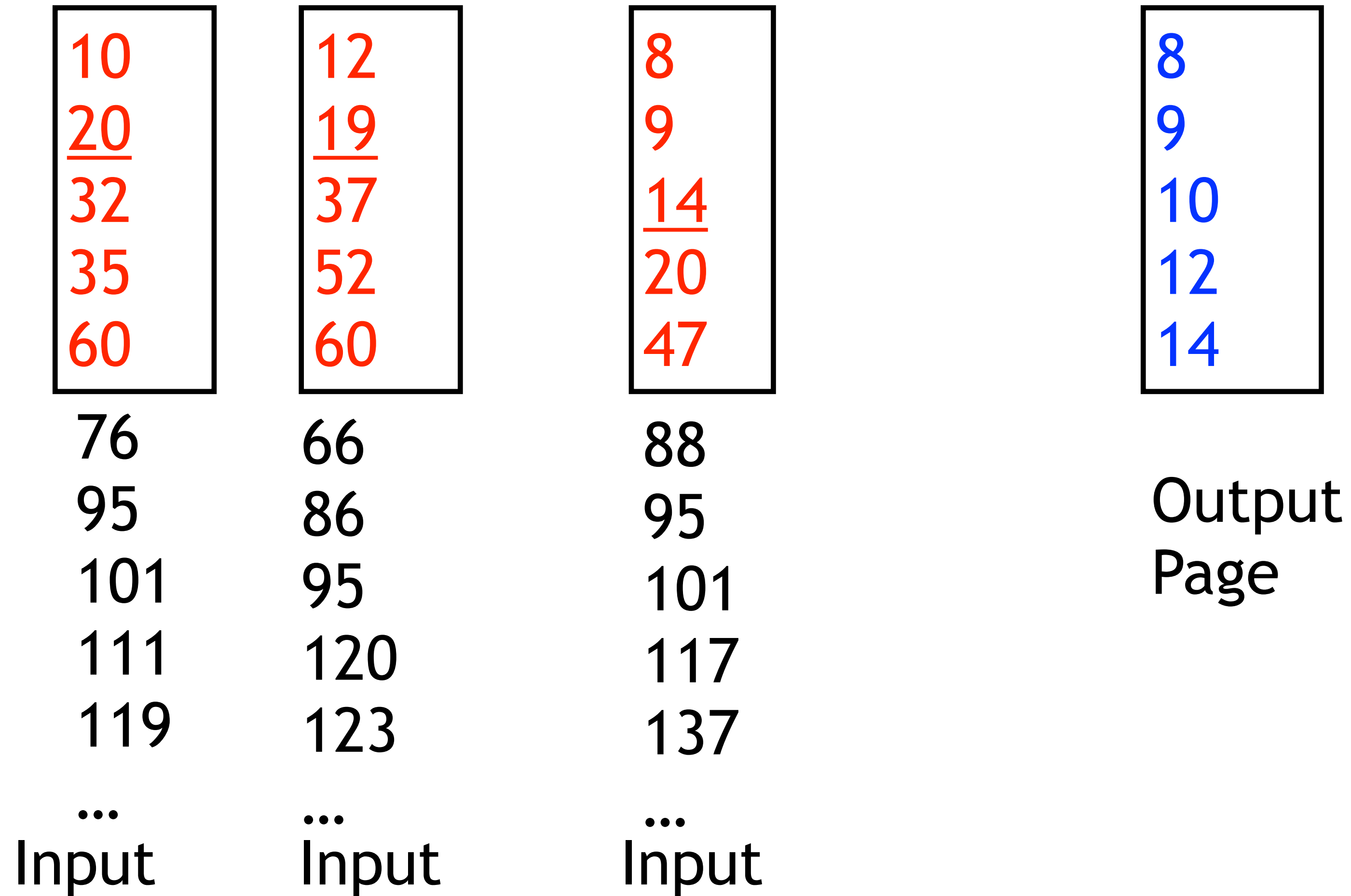
# Merge Example



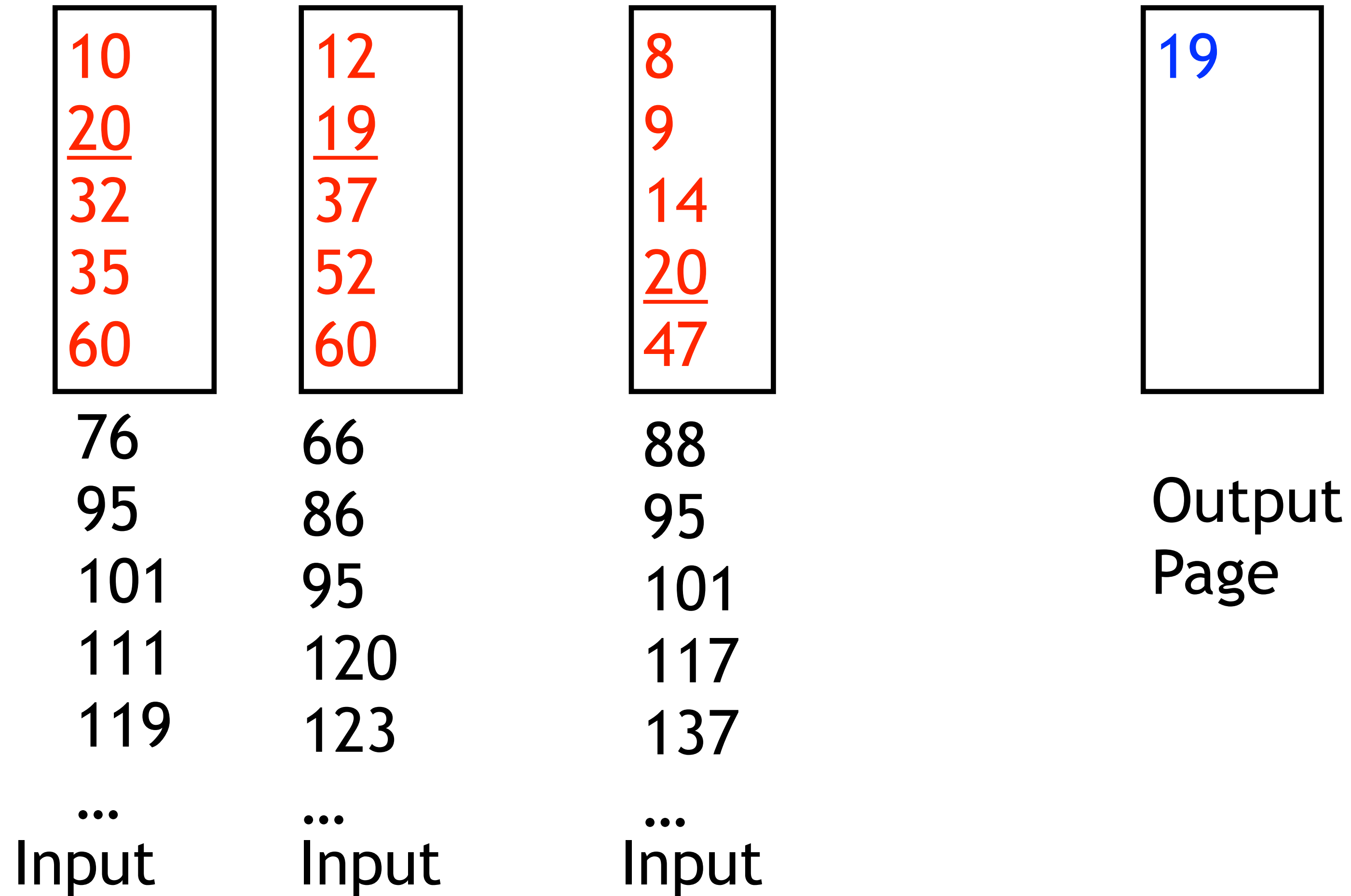
# Merge Example



# Merge Example



# Merge Example





# Homework 4 Due Date Extension

- Saturday May 8