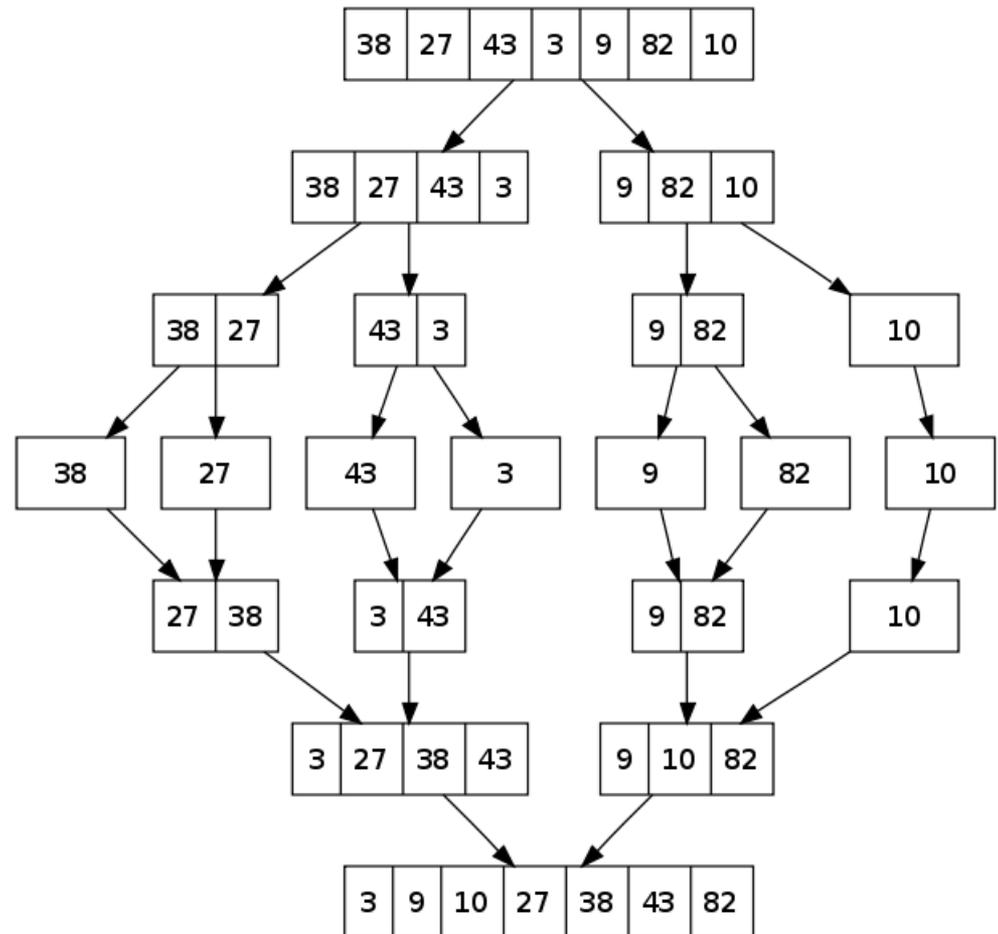


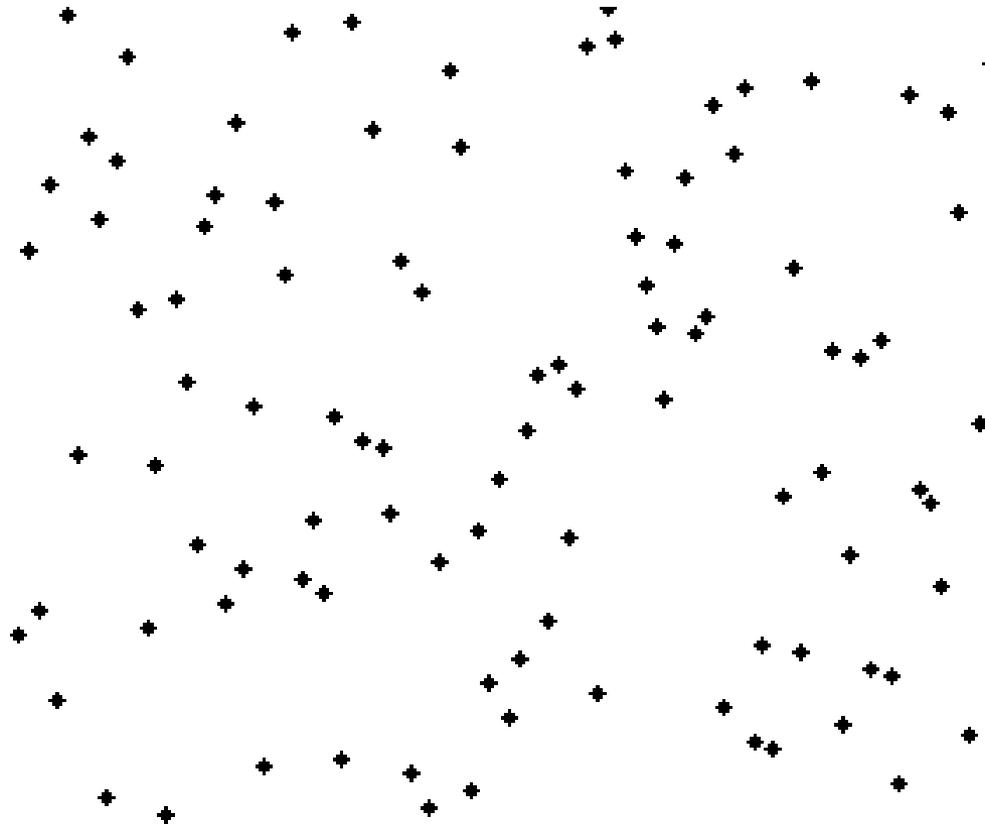
Merge Sort

How a merge sort works

- ▶ Recursively divides list in half until there is only one item in the list
- ▶ Merges the two halves of the list such that the merged list is sorted



Animation of a merge sort



Efficiency and Advantages

- ▶ A merge sort has a Big-Oh efficiency of $O(n \log(n))$.
 - ▶ Merge sorts work very well with linked lists
 - ▶ Merge sort is a parallel process and is therefore easily multithreaded.
 - ▶ Merge sort is a stable sort.
- 

Activity



Demo

