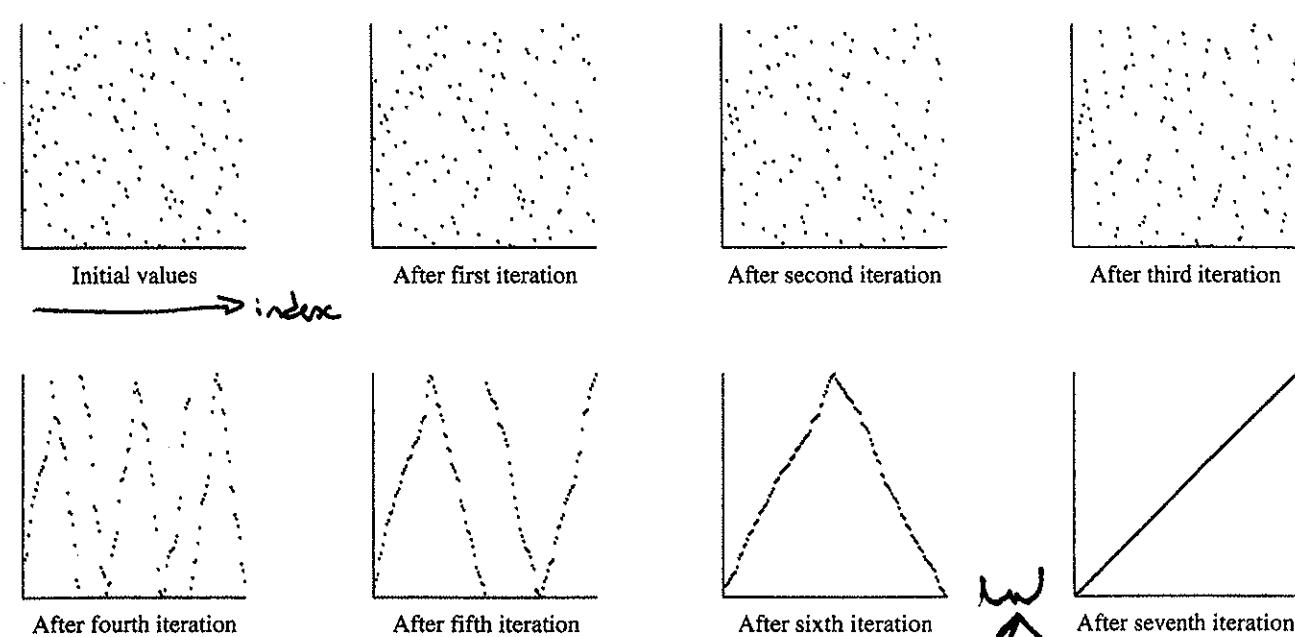
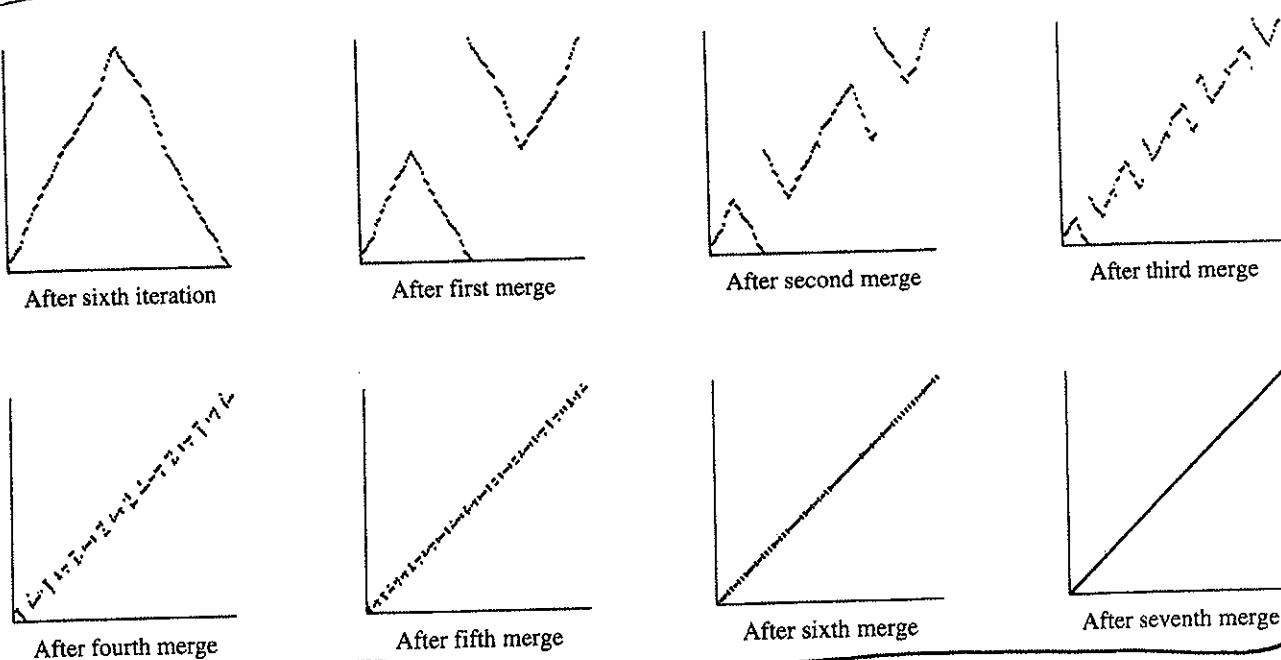


Bitonic Sorting in Action!

Value ↑



E 10-11 Iterations of bitonic mergesort. The list has 128 elements; hence the sort requires $\log 128 = 7$ iterations. Iteration i has i compare-exchange steps, for $1 \leq i \leq 7$.



GURE 10-9 Given a bitonic sequence of length $n = 2^k$, $\log n$ compare-exchange steps transform it into a sorted sequence. In this example seven compare-exchange steps transform a bitonic sequence of length 128 into a sorted sequence of length 128.

These are copied from Quinn, Parallel Computing: Theory & Practice.

10.9 is a close up of what happens between 'sixth' at 'seventh' iterations of 10-11. Similar (but smaller) sequences occur between each pair of iterations in 10-11.