

7-1

Origin	3	1	4	1	5	9	2	6	5
After P=1	1	3	4	1	5	9	2	6	5
After P=2	1	3	4	1	5	9	2	6	5
After P=3	1	1	3	4	5	9	2	6	5
After P=4	1	1	3	4	5	9	2	6	5
After P=5	1	1	3	4	5	9	2	6	5
After P=6	1	1	2	3	4	5	9	6	5
After P=7	1	1	2	3	4	5	6	9	5
After P=8	1	1	2	3	4	5	5	6	9

7-4

origin	9	8	7	6	5	4	3	2	1
After 7- sort	2	1	7	6	5	4	3	9	8
After 3- sort	2	1	4	3	5	7	6	9	8
After 1- sort	1	2	3	4	5	6	7	8	9

7-11

$O(N \log N)$

7-25

Insertion sort and mergesort are stable sorting algorithms.