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DS (Chapter 7)

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2.10

a) If you subtract one from gap variable if it is even, then it would become odd.

b) If you add on to the gap variable if it is even, then it will become odd.

It would seem to me that they do the same thing in the worst case.

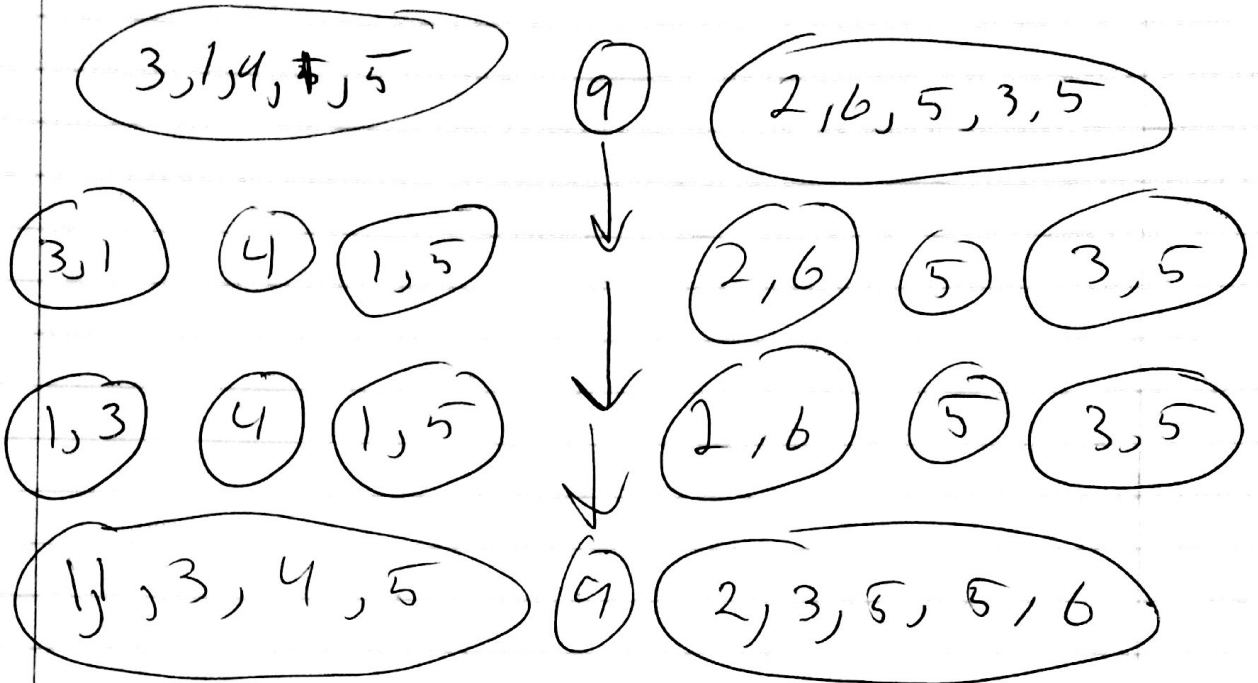
7.11

	879	811	572	434	453	123	543	65	111	142	242	402
0	1	2	3	4	5	6	7	8	9	10	11	12

7.19

7.14

3, 1, 4, 1, 5, 9, 2, 6, 5, 3, 5



~~1, 1, 3, 4, 5~~

$1, 1, 2, 3, 3, 4, 5, 5, 5, 6, 9$

7.20

Quicksort runtime for:

- sorted input $O(n \log n)$
- reversed-ordered input $O(n^2)$
- random input $O(n \log n)$