

SELECTION SORT

9. 1. 2 4 3 5 6 2 9 8 5 7

① 1 9. 2. 4 3 5 6 2 9 8 5 7

② 2 9. 4 3 5 6 2. 9 8 5 7

③ 2 4. 3. 5 6 9 9 8 5 7

④ 3 4. 5. 6 9 9 8 5 7

⑤ 4 5. 6 9 9 8 5 7

⑥ 5 6. 9 9 8 5. 7

⑦ 5 9. 9 8 6. 7

⑧ 6 9. 8 9 7.

⑨ 7 8. 9 9

⑩ 8 9. 9

⑪ 9 9

1 2 2 3 4 5 5 6 7 8 9 9

INSERTION SORT

9 1 2 4 3 5 6 2 9 8 5 7

① 9

② 1 9

③ 1 2 9

④ 1 2 4 9

⑤ 1 2 3 4 9

⑥ 1 2 3 4 5 9

⑦ 1 2 3 4 5 6 9

⑧ 1 2 2 3 4 5 6 9

⑨ 1 2 2 3 4 5 6 9 9

⑩ 1 2 2 3 4 5 6 8 9 9

⑪ 1 2 2 3 4 5 5 6 8 9 9

1 2 2 3 4 5 5 6 7 8 9 9

SHELL SORT

$$\begin{aligned} \text{len} &= 12 \\ \text{mid} &= 12/2 = 6 \end{aligned}$$

9	1	2	4	3	5	6	2	9	8	5	7
6	9
.	1	2
.	.	2	9	.	.	.
.	.	.	4	8	.	.
.	.	.	.	3	5	.
.	5	7

①

6	1	2	4	3	5	9	2	9	8	5	7
4	.	.	6	.	.	8	.	.	9	.	.
.	1	.	.	2	.	.	3	.	.	5	.
.	.	2	.	.	5	.	.	7	.	.	9

②

4	1	2	6	2	5	8	3	7	9	5	9
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4

1 4

1 2 4

(no more split,
insertion sort)

