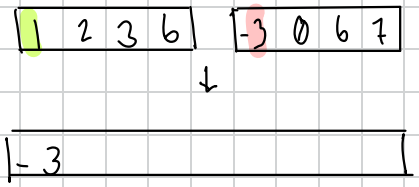
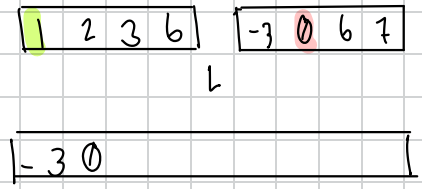
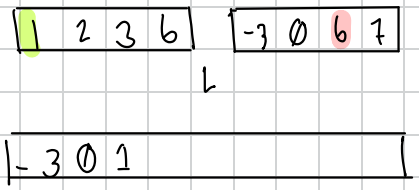
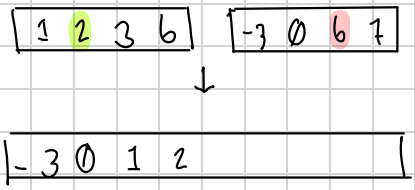
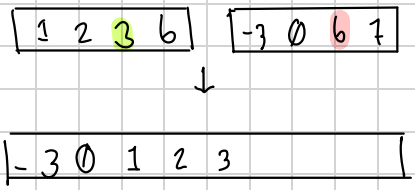
① merge-sort

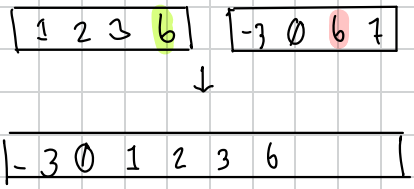
1) 

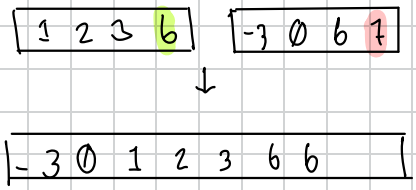
2) 

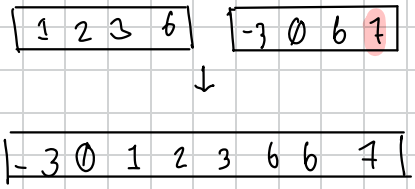
3) 

4) 

5) 

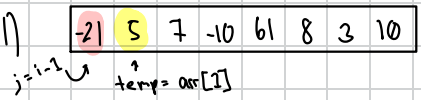
6) 

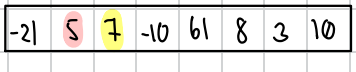
7) 

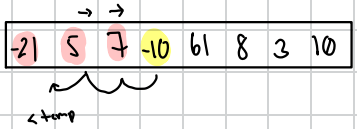
8) 

Sorted array

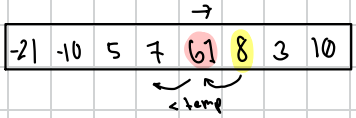
② insertion Sort

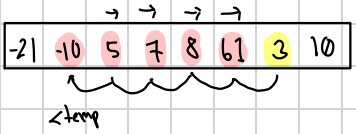
1) 

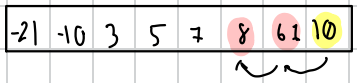
2) 

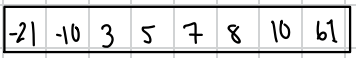
3) 

4)

5) 

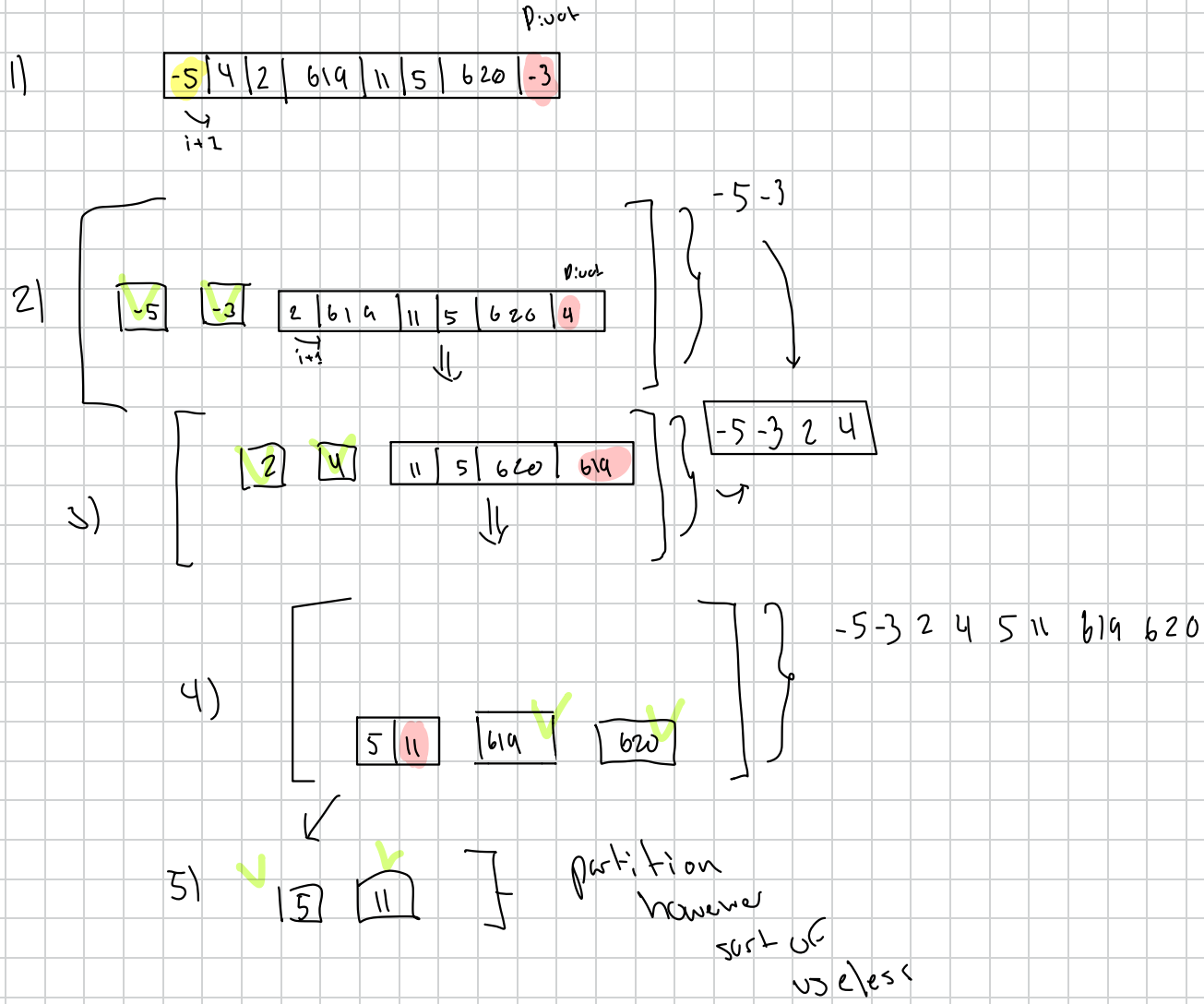
6) 

7) 

8) 

} sorted array

③ Quick Sort



Sorted Array

-5	-3	2	4	5	11	619	620

⑨ Shell Sort

5	10	60	0	-1	34	6	10

gap = 4

-1 ——— 5

10 ——— 34

6 ——— 60

↓↓

-1	10	6	0	5	34	60	10

gap 2

-1 6

0 10

5 ↓ 6

10 ↓ 34

6 60

10 34

-1	0	5	10	6	10	60	34

gap 1 (insertion sort)

-1	0	5	10	6	10	60	34

-1	0	5	6	10	10	34	60

-1	0	5	10	6	10	60	34

→

-1	0	5	10	6	10	60	34

<temp

-1	0	5	6	10	10	60	34

-1	0	5	6	10	10	60	34

→

-1	0	5	6	10	10	60	34

<temp