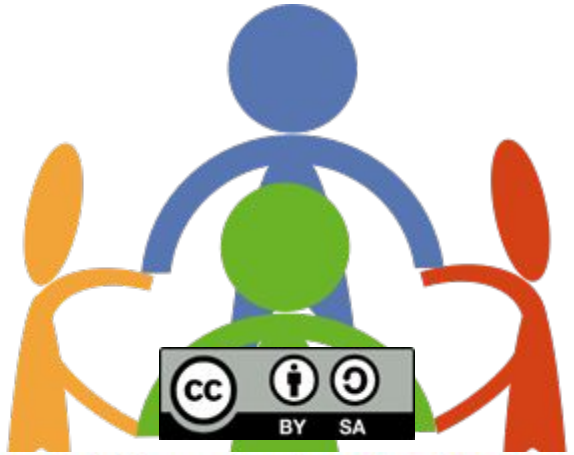
Which Sorting: Concept Challenge



4	7	2	10	1	8

Initial Array

2	4	7	10	1	8

After 3 loop iterations

Which sorting algorithm could produce the "after" array in the 3rd iteration of its outer loop (assume i starts at 0)

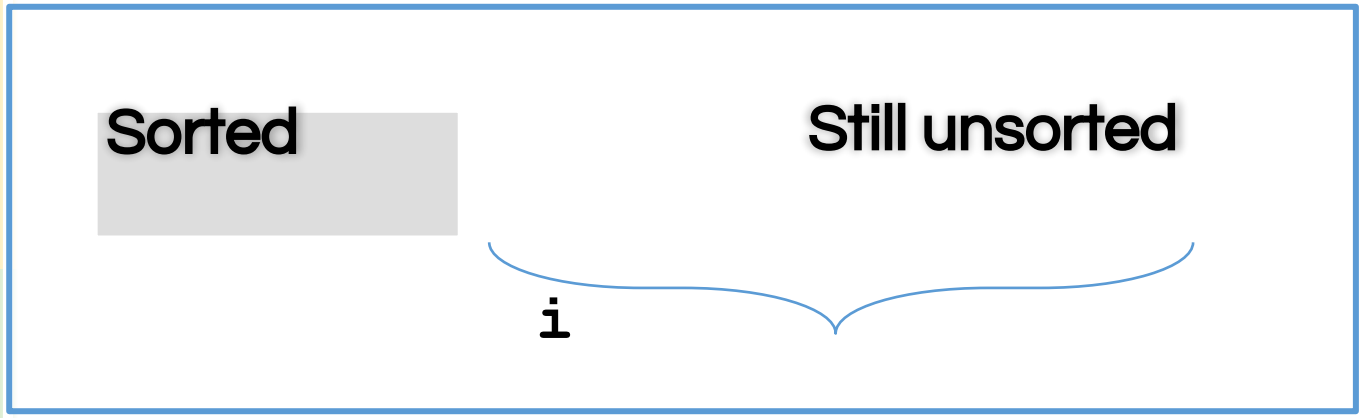
A. Insertion Sort
B. Selection Sort
C. Neither
D. Both

Break here for IVQ and Learner Video

Selection Sort: Basic Algorithm

For each **position `i`** from `0` to **`length-2`**

Find smallest element in **positions `i` to `length-1`**
Swap it with element in **position `i`**



Insertion Sort

4 7 2 10 1 8

Insertion Sort

4	7	2	10	1	8

4	7	2	10	1	8

Insertion Sort

4	7	2	10	1	8
4	7	2	10	1	8
4	7	2	10	1	8

Insertion Sort

4	7	2	10	1	8
4	7	2	10	1	8
4	7	2	10	1	8
2	4	7	10	1	8

Selection Sort

4 7 2 10 1 8

Selection Sort

4	7	2	10	1	8

1	7	2	10	4	8

Selection Sort

4	7	2	10	1	8
1	7	2	10	4	8
1	2	7	10	4	8

Selection Sort

4	7	2	10	1	8
1	7	2	10	4	8
1	2	7	10	4	8
1	2	4	10	7	8