

Unexpectedly Useful Operations

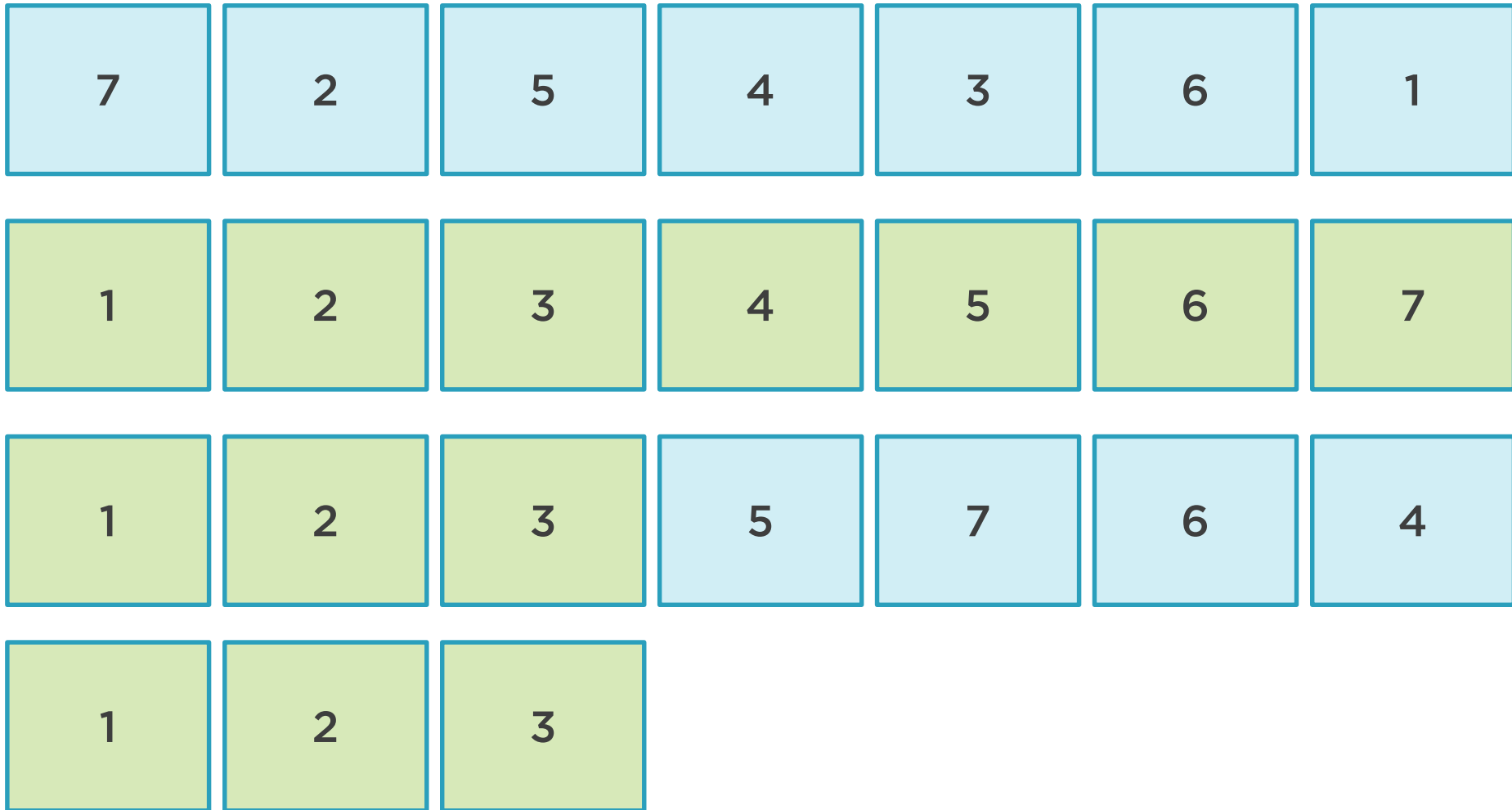


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Remember partial_sort_copy?



Swapping

`swap()`

`iter_swap()`

`swap_ranges()`

Within or between collections

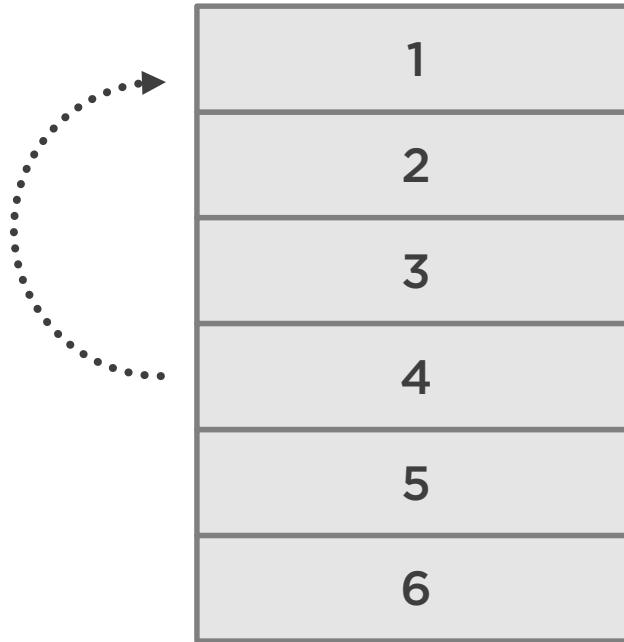


Reordering Elements by Hand

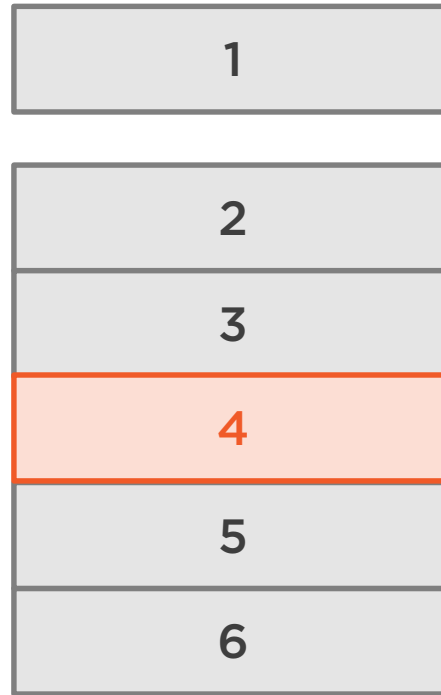
1
2
3
4
5
6



Reordering Elements by Hand



Reordering Elements by Hand



Rotate

1
2
3
4
5
6

2
3
4
5
6
1



Rotate Part of a Collection

1
2
3
4
5
6

1
2
3
4
5
6

1
4
2
3
5
6



Advantages of Algorithms

Quicker to write

Quicker for everyone else to
read for the rest of time

Probably faster

Better tested



Partition

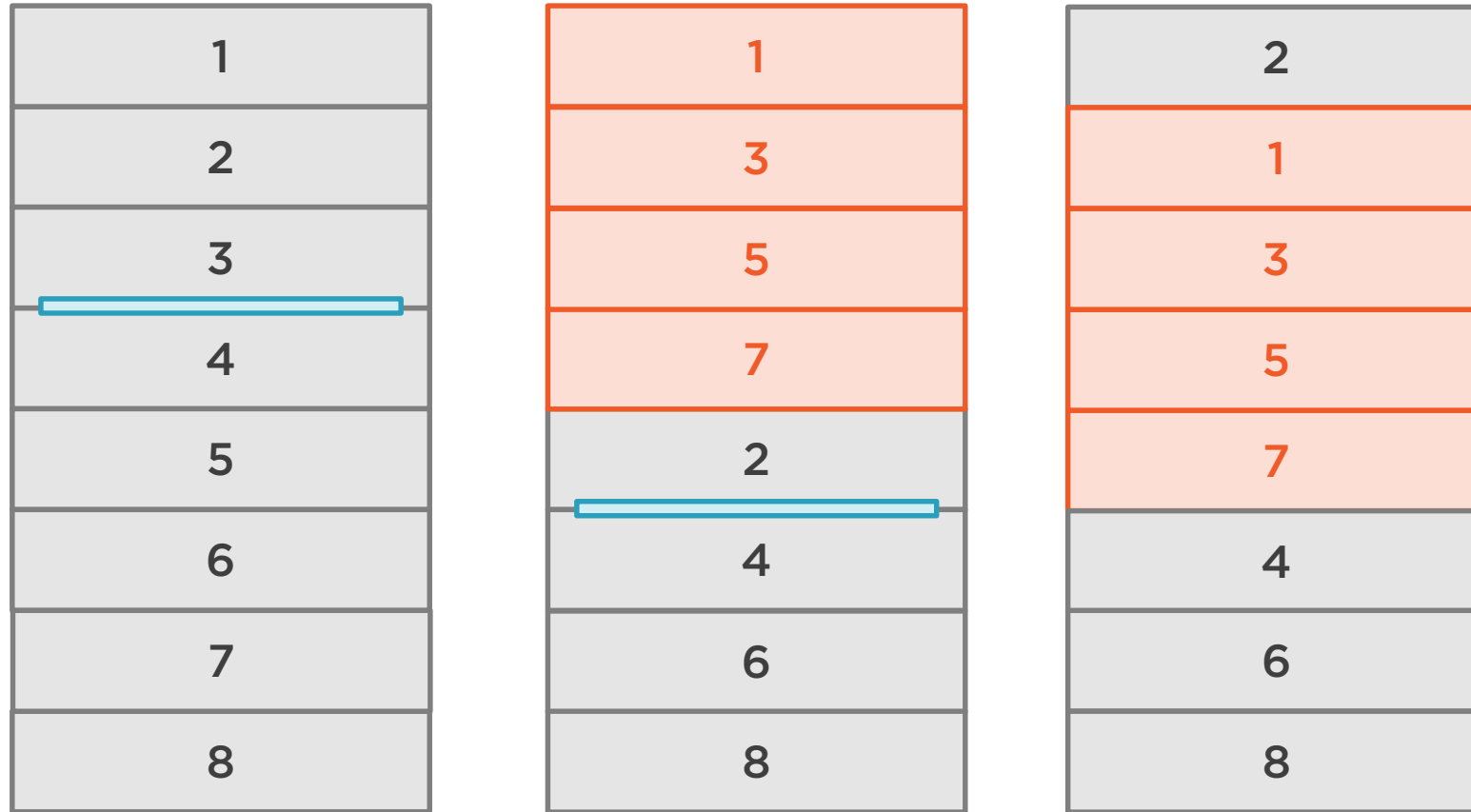
1
2
3
4
5
6
7
8

5
3
1
7
6
4
8
2

1
3
5
7
2
4
6
8



Rotate and Partition



Summary



Some <algorithm> functions have odd names

- What they do, not what they're for

Think of

- `partial_sort_copy` as *top_n*
- `rotate` as *move_within_collection*
- `stable_partition` as *gather*

Knowing they exist makes the difference

