

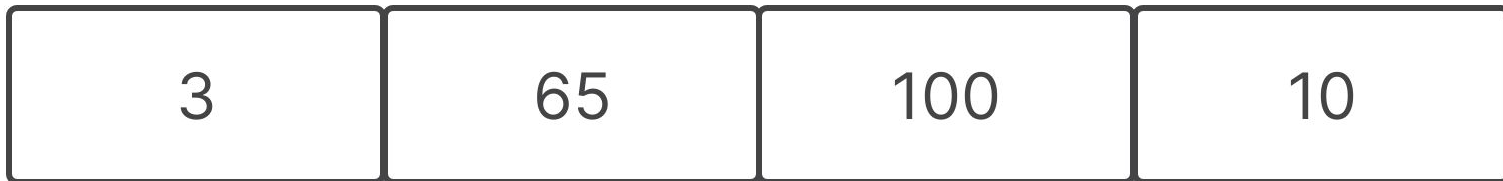


Introduction to Bubble Sort

What is bubble sort?

Takes unordered list and orders it

Traverses a list from front to end repeatedly



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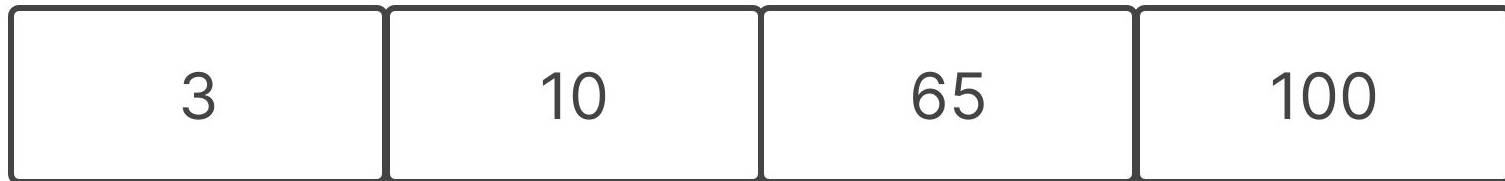


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Bubble sort

Start at front and compare first two items (index 0 and 1)

Swap if values are out of order

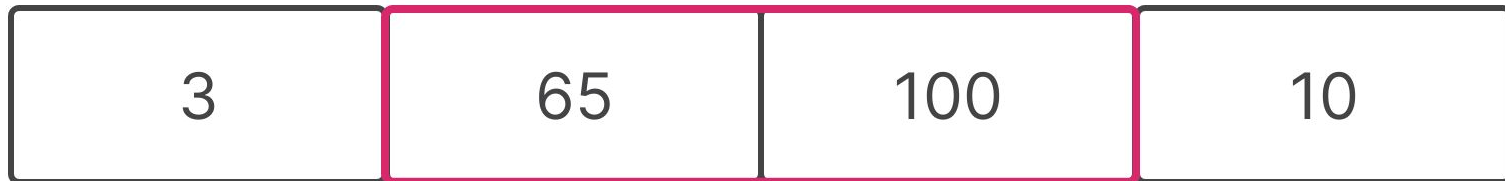


Bubble sort

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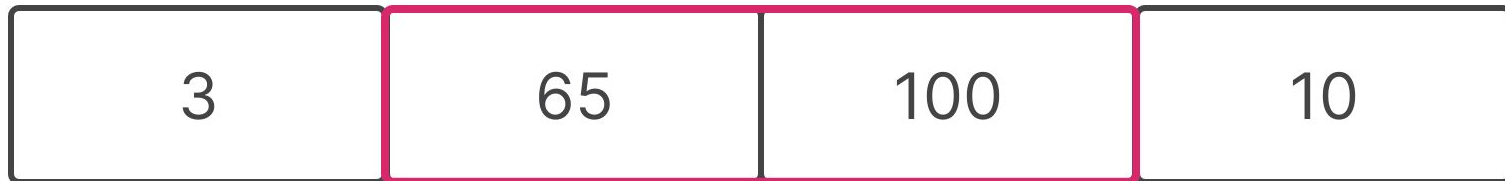
Swap 65 and 3



Bubble sort

No swapping needed if values are in correct order

No need to swap

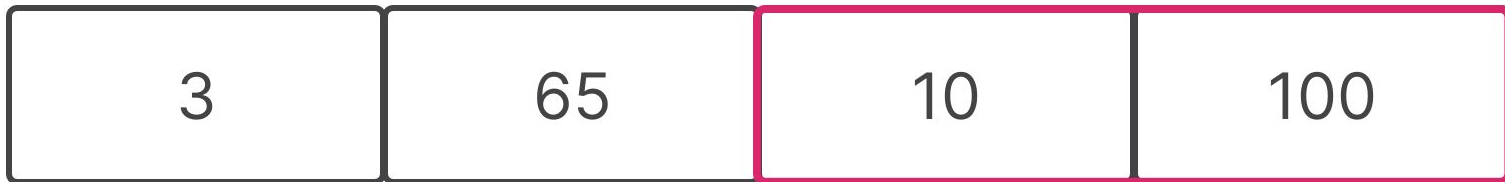


Bubble sort

Reaching last pair of items indicates end of first full traversal of list

If list is not fully sorted, repeat the traversal

Swap 100 and 10





Bubble sort

No need to swap

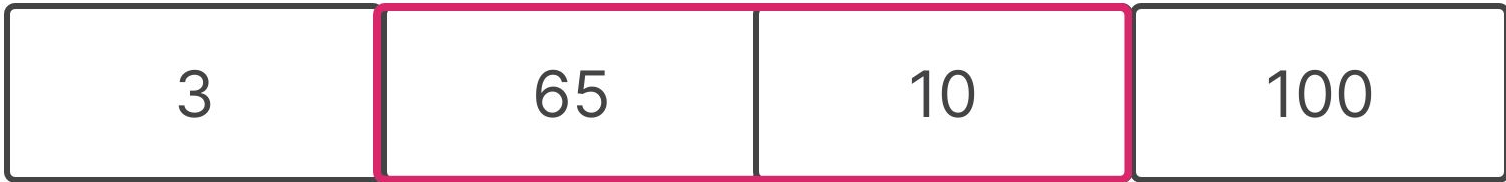




Bubble sort

Algorithm is done when list is sorted

Swap 10 and 65

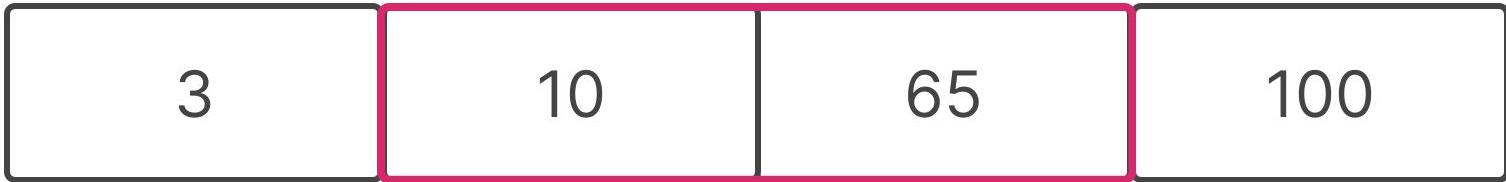




Bubble sort

Algorithm is done when list is sorted

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Bubble sort

Algorithm is done when list is sorted

No need to swap

