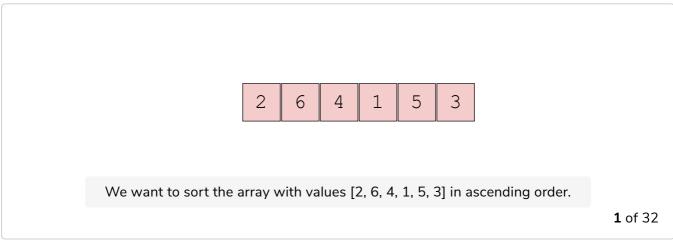
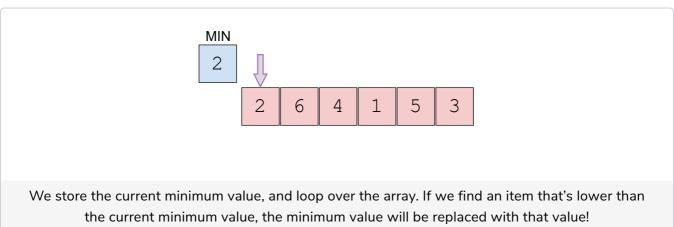
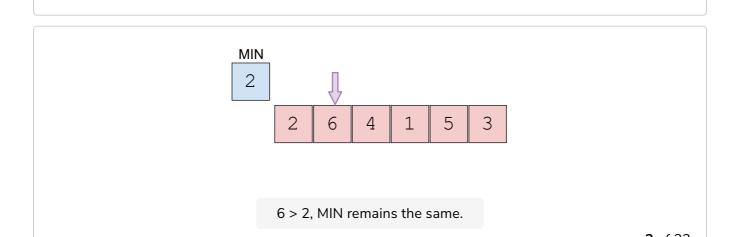
Introduction to Selection Sort

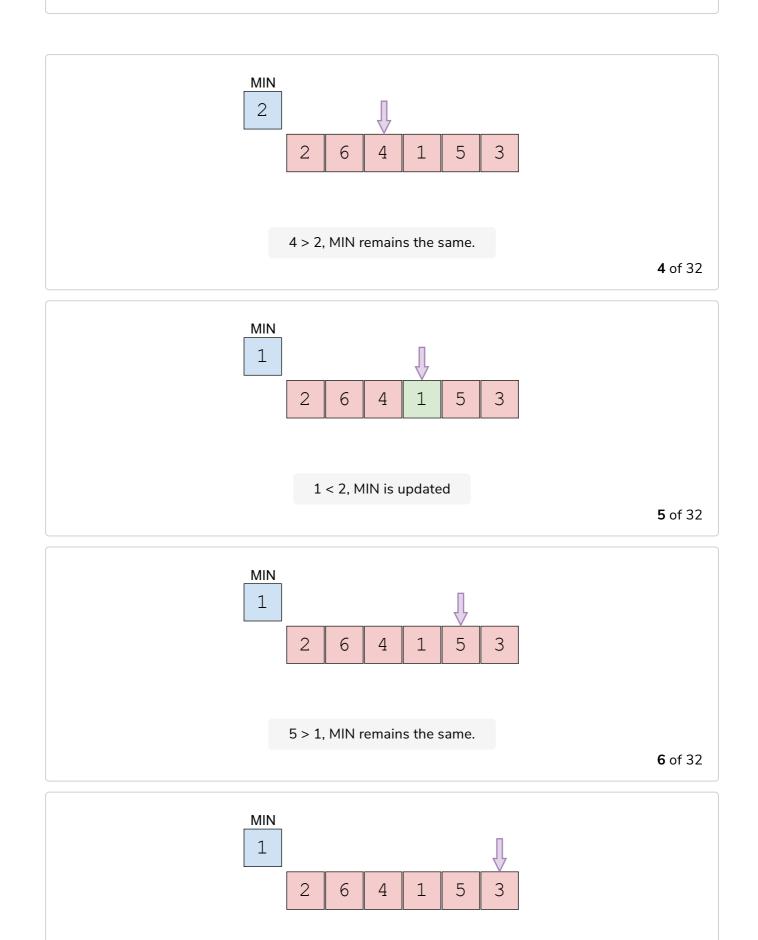
Selection sort works by finding the minimum, and then comparing each element to that minimum to decide its correct position. (Reading time: under 3 minutes)

Selection sort is a simple sorting algorithm, that loops over the array and saves the absolute lowest value. The lowest value is then swapped with the first item in the unsorted array.

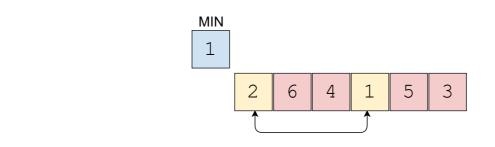




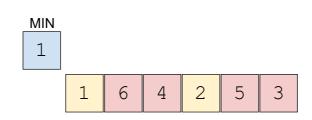




3 > 1, MIN remains the same. We're now at the end of the array.

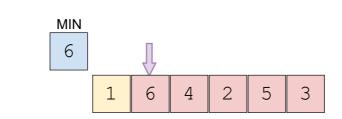


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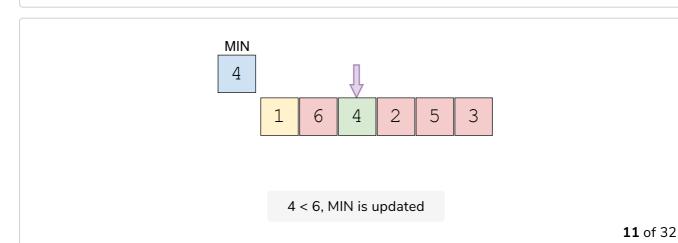


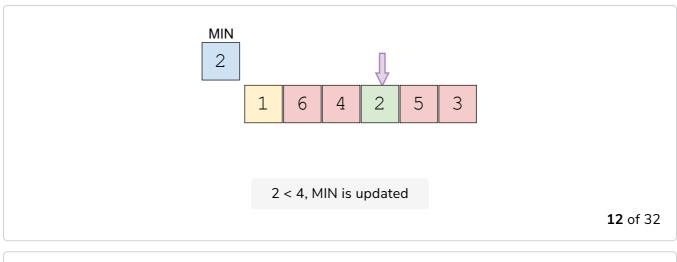
We swap the first item of the unsorted array with the minimum value, and move the sorted array one element.

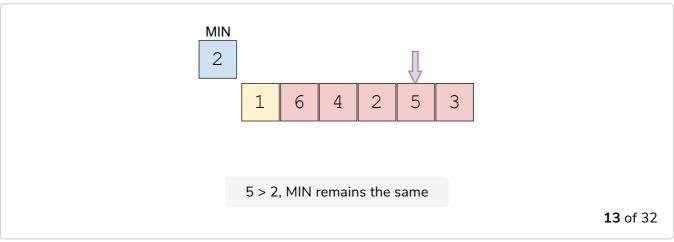
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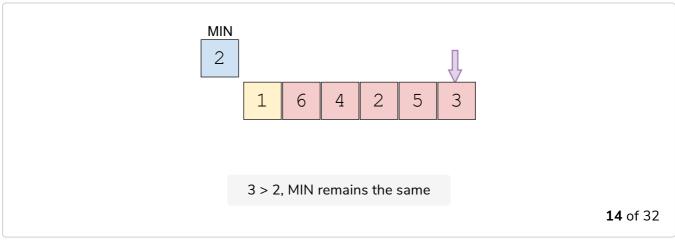


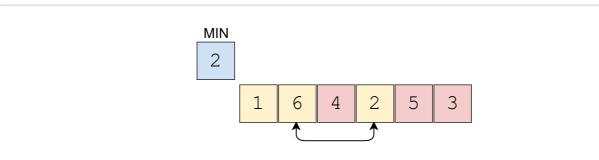
The yellow elements show the elements of the sorted array. Loop starts again. MIN = 6

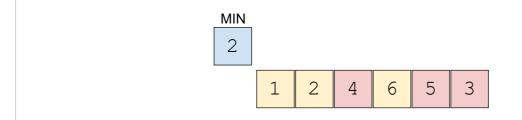




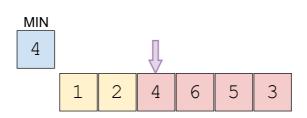




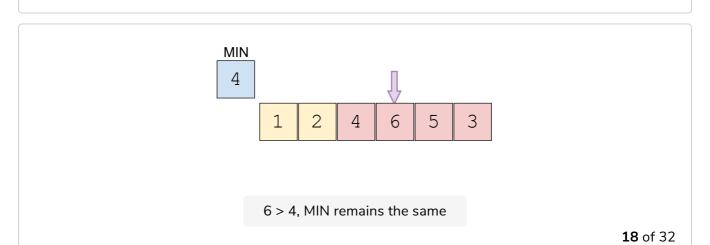


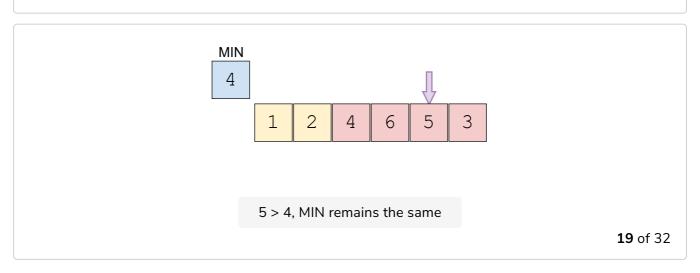


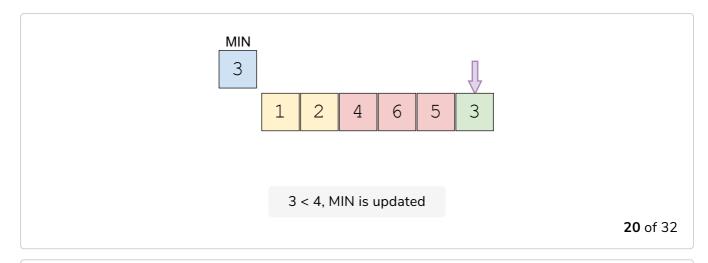
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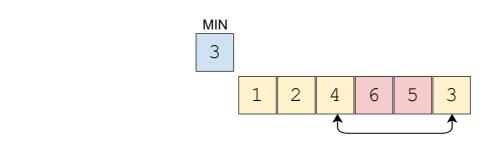


The yellow elements show the elements of the sorted array. We now loop over the unsorted array again. MIN = 4

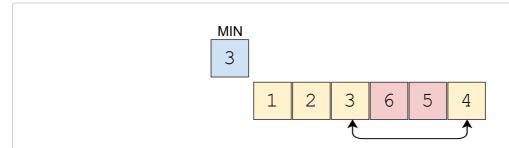








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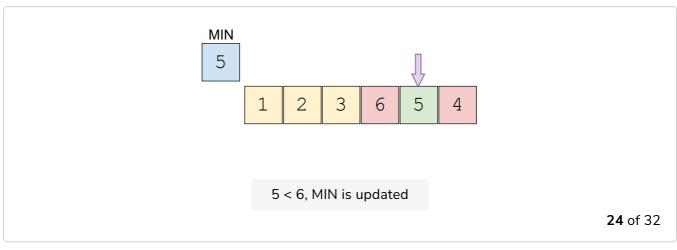


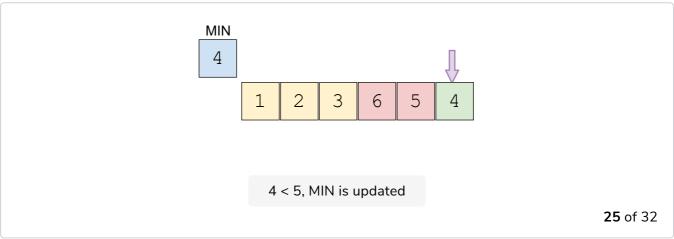
We swap the first item of the unsorted array with the minimum value, and move the sorted array one element.

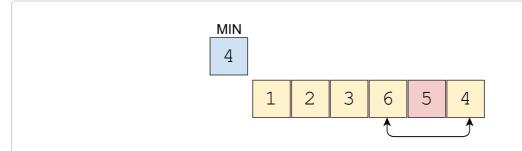
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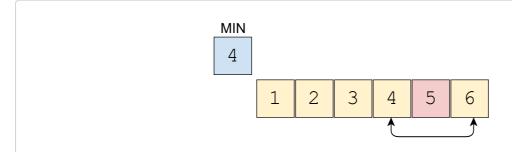
The yellow elements show the elements of the sorted array. We loop over the unsorted array again. MIN = 6



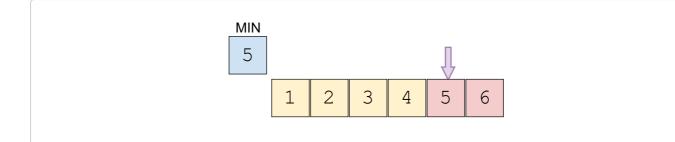




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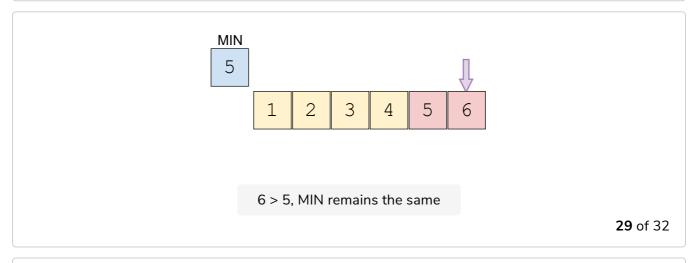


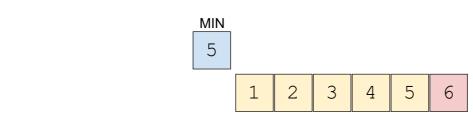
We swap the first item of the unsorted array with the minimum value, and move the sorted array one element.



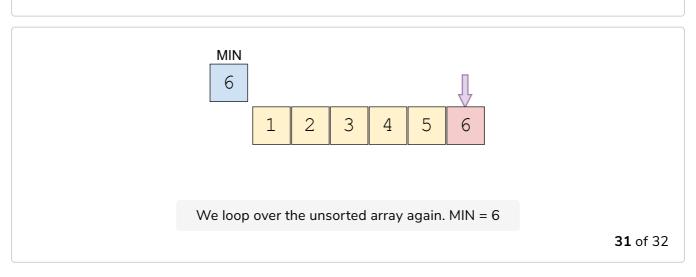
The yellow elements show the elements of the sorted array. We now loop over the unsorted array again. MIN = 5

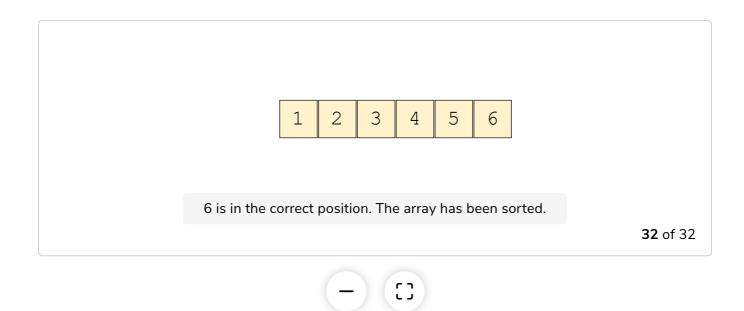
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5 is at the correct position. The yellow elements show the elements of the sorted array.





In the next lesson, I will talk about the implementation of this algorithm.