

## Selection Sort Algorithm

Consider an array

left sorted

right unsorted

select minimum element and insert at beginning of left side of array

At each pass smallest element will be at its correct position.

Example

2	4	1	3	5
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1 → minimum element insert at 0<sup>th</sup> position.

1	4	2	3	5
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2 → minimum element

1	2	4	3	5
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3 → minimum element

1	2	3	4	5
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→ Sorted array

Time complexity →  $O(n^2)$