Selection Sort (Time Complexity)

best, average and worst case time complexity of the selection sort algorithm. (Reading time: under 1 minute)

TIME			SPACE
Best	**Average**	**Worst**	**Worst**
$O(n^2)$	$O(n^2)$	$O(n^2)$	$O(1)$

Best, average and worst:

For every element in the array, we loop over the array. This means that for n elements, we have to loop over n elements.

Worst space:

We have one variable in the for-loop.

Now, let's move on to the counting sort algorithm.