

# $O(N^2)$ - Quadratic Complexity

## Examples:

- Many sorting algorithms have quadratic complexity (quicksort, bubble sort, insertion sort, etc.)
- Performing an action on every item in a 2D array
- Searching in a 2D array
- Nested loops.

If 1 item takes 1 second to process, 100 items  
take 10,000 seconds to process