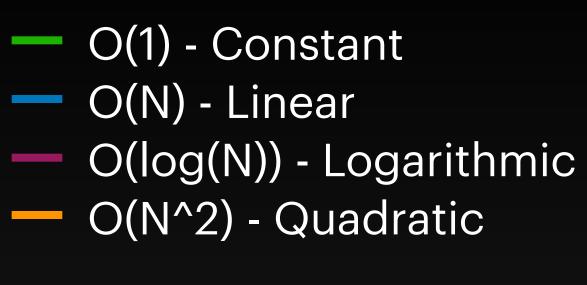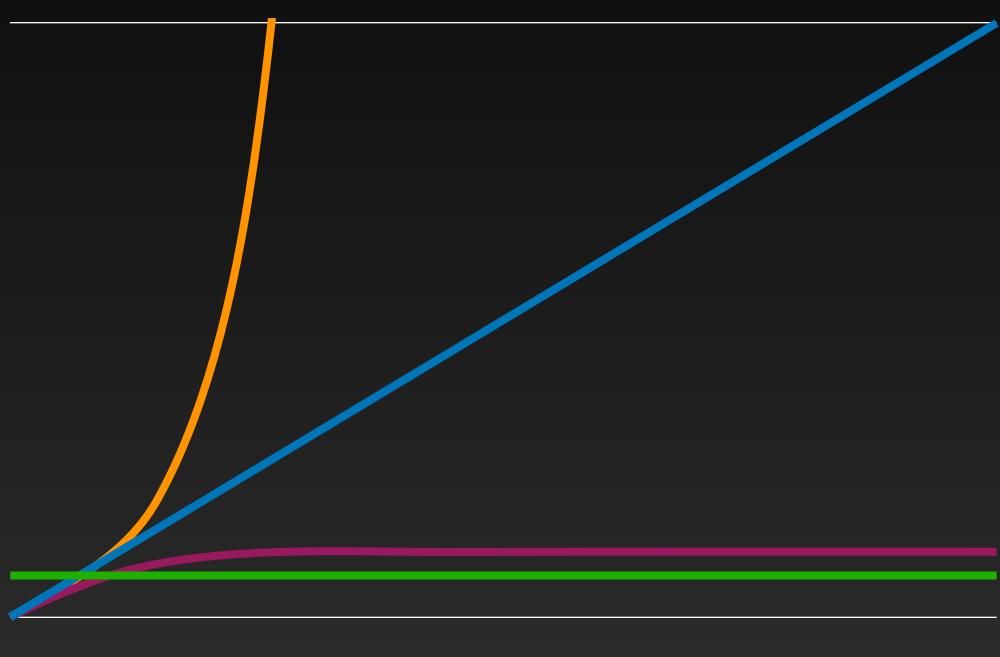# $O(N^2)$

Quadratic Complexity (Also written as O(N^2)

O(N²)

The big idea:

For each time the input grows the processing time required by the algorithm will grow exponentially. N represents the size of the input.

O(N²) is inefficient and should be avoided if possible.

Legend:
- O(1) - Constant
- O(N) - Linear
- O(log(N)) - Logarithmic
- O(N^2) - Quadratic

Operations

Input Size