

TIME AND SPACE COMPLEXITY

TIME COMPLEXITY = How much time will an algorithm take?
- can be relative to what's going in

SPACE COMPLEXITY = How much memory will an algorithm take?
- variable/object storage, collection overhead, intermittent variables, etc.

BIG O NOTATION ($O(1)$, $O(n)$, etc.)

↳ the worst case scenario for an algorithm
- what is the maximum time an algorithm could take?

BIG OMEGA (Ω) NOTATION ($\Omega(1)$, $\Omega(n)$, etc.)

↳ the best case scenario for an algorithm
- what is the minimum time an algorithm could take?

BIG THETA (Θ) NOTATION ($\Theta(1)$, $\Theta(n)$, etc.)

↳ what is the generally expected time an algorithm will take?