



 $O(n^2)$

AKA: Quadratic

ANS

AKA: Quadratic

(It sorts in place)

AKA: Constant

AKA: Linear Only if the data is already sorted

> Iterate through all elements, swap neighbors if wrong order, repeat until fully sorted.

Bubble Sort

O(n)

AKA: Constant

AKA: Linear

AKA: Linear

SO(n log n)

(It sorts in place)

AKA: Constant

AKA: Linearithmic

AKA: Linearithmic

AKA: Linearithmic

An algorithm that uses multiple other algorithms to solve a problem. A hybrid algorithm.

AKA: Linear

(It's sorted in-place)

AKA: Constant

AKA: Quadratic

AKA: Quadratic

AKA: Linearithmic

AKA: Linearithmic

O(log *n*)

Assumes integer index with division flooring

S O(log n)

AKA: Logarithmic