

Introduction to bubble sort

Algorithm

-15	7	20	1	-22	35	55
0	1	2	3	4	5	6

unsorted partition index = 6 - this is the last index of the unsorted partition.

index used to traverse the array from left to right

i = 0.

Algorithm difficulty:

- In place Algorithm (extra variable like memory) but that's okay!
- $O(n^2)$ Time complexity - quadratic
- It will take 100 steps to sort 10 items, 10,000 steps to sort 100 items, 1,000,000 steps to sort 1000 items.
- Algorithm degrades quickly