



Bubble Sort

This is a very simple sorting algorithm. Because it's also very inefficient, Bubble Sort is not practical for real-world use and is generally only discussed in an academic context. The basic theory behind BubbleSort is that you take an array of integers and Iterate through it; for each element at some index i whose value is greater than the element at the index following it (i.e., index i+1), you must swap the two values. The act of swapping these values causes the larger, unsorted values to float to the back (like a bubble) of the data structure until they land in the correct location.

Asymptotic Analysis

- Worst Case: $\mathcal{O}(n^2)$
- Best Case: $\mathcal{O}(n)$
- Average: $\mathcal{O}(n^2)$

Example (Java)

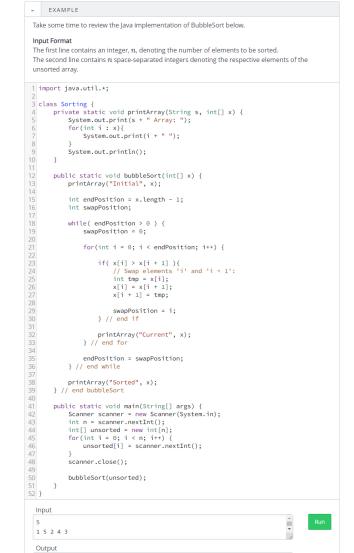


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