INSERTION SORT

- Simple quadratic sorting algorithm.
- Builds the final sorted array one item at a time.
- Less efficient on larger lists but does offer many advantages on smaller data sets.

INSERTION SORT ADVANTAGES

- Simple implementation: around 3-5 lines of code.
- Efficient on smaller data sets.
- Faster time complexity than other simple methods.
- It is stable and in place.
- It is online: meaning it can sort a list as it receives it.
- Adaptive, (ie) efficient for substantially sorted datasets: the time complexity O(nk) when each element in the input is no more than k places away from its sorted position.