Selection sort → Statements

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Easy 1 minute

Select all correct statements about **selection sort**.

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- [x] The algorithm can sort arrays which contains duplicate values.
- [x] Suppose we sort an array in ascending order. First, the algorithm finds the smallest element in the whole array and exchange it with the element at the first position, then find the second smallest element and exchange it with the element at the second position, and continue in this way until the whole array is sorted.
- [ ] The algorithm finds the min/max **n sqrt n** times, where **n** is the length of the array.
- [ ] The worst-case time complexity of the algorithm is **O(n sqrt n)** where **n** is the length of the array.

✓ Correct.

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