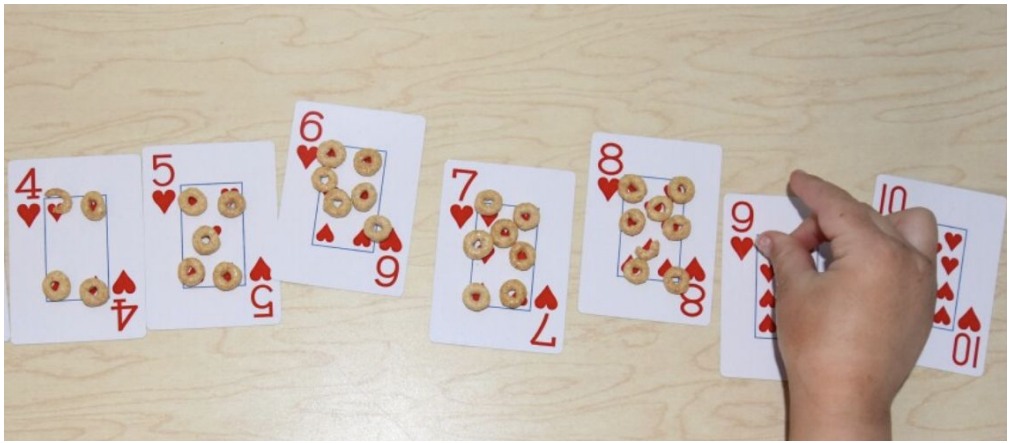
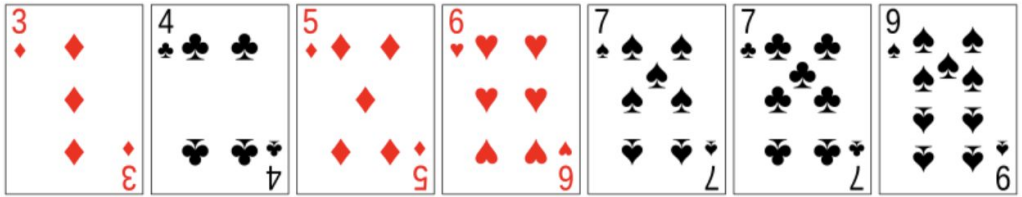
Sorting

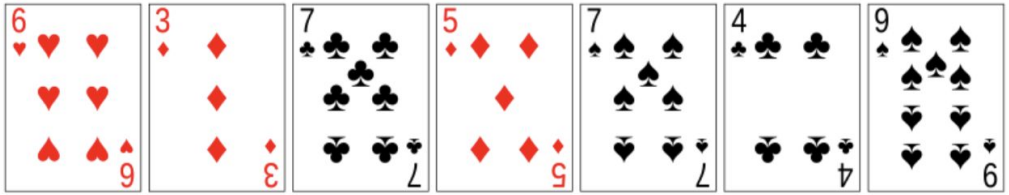


Sorting

After sorting:



Previous:



Sort

- Where can you use sorting

- Why do we need sorting
- What is important for sorting

Space and time complexities!

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Sorting in Computer Science

Usually numerical / lexical order

- Definition: A sorting algorithm is an algorithm that puts elements of a list into an order.
- Output requirements: Monotonic & Permutation
- Efficient sorting is what we care about (space & time).
- Example: selection sort

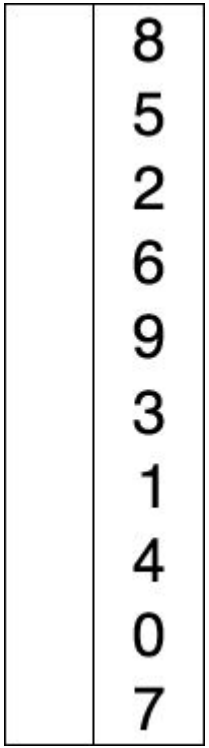
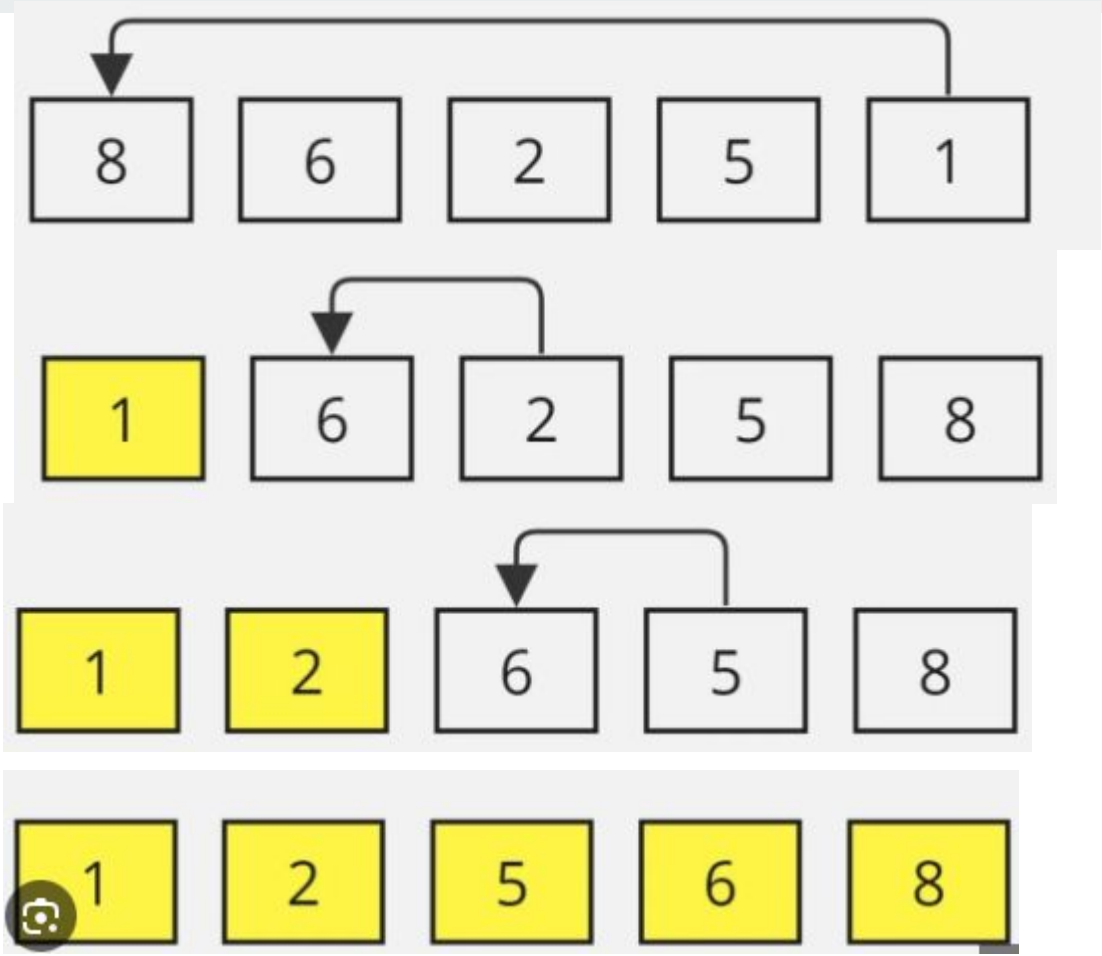


Photo credited from wikipedia

Selection sort

Example: [8, 6, 2, 5, 1]



Time complexity: O(n^2)
Space complexity: O(1)

Corrected the typo!

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