Selection Sort

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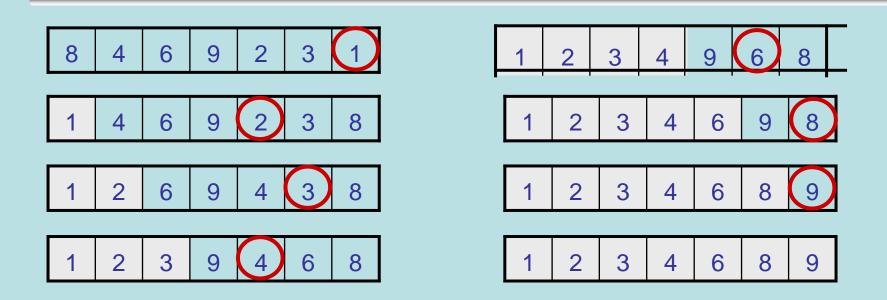
Idea:

- Find the smallest element in the array
- Exchange it with the element in the first position
- Find the second smallest element and exchange it with the element in the second position
- Continue until the array is sorted

Disadvantage:

 Running time depends only on the number of records to be sorted

Example



Selection Sort

```
selectionSort(list,n) {
for (i=0 \text{ to } n-2) {
  min = i
  for (j = i+1 \text{ to } n-1)
     if (list[min] > list[j])
       min = j
  t = list[min]
  list[min] = list[i]
  list[i] = t
```