

## Bubble Sort

**A** = 5, 3, 6, 4, 9

**Pseudo-code:**

```
for i = 0 to A.length - 2
  for j = 0 to A.length - 2 - i
    if A[j] > A[j + 1]
      tmp = A[j + 1]
      A[j + 1] = A[j]
      A[j] = tmp
```

## Time complexity

**i = 0 -> 0 <= j < n-2 -> (n-1)**

**i = 1 -> 0 <= j < n-3 -> (n-2)**

...

**i = n-2 -> 0 <= j < 0 -> 1**