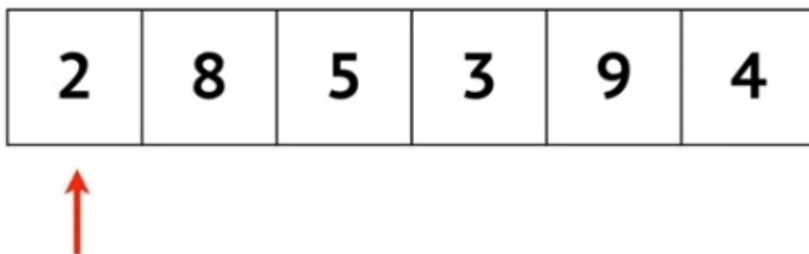
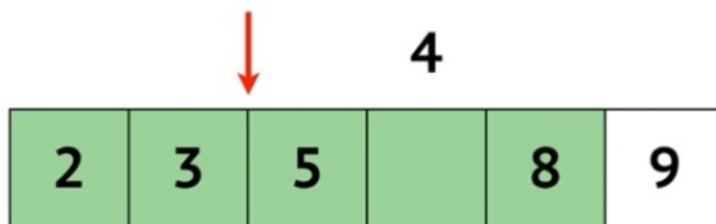
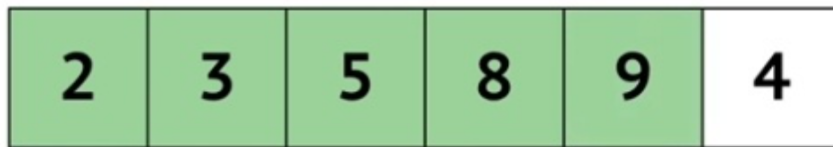
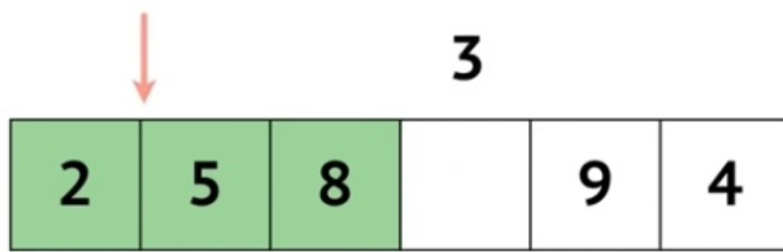


INSERT SORT

1. Work left to right
2. Examine each item and compare it to items on its left
3. **Insert** the item in the correct position in the array

* The array will form sorted and unsorted partitions.
We'll color the sorted partition **green**.





```
for i : 1 to length(A) - 1  
    j = i  
    while j > 0 and A[j-1] > A[j]  
        swap A[j] and A[j-1]  
        j = j - 1
```

$O(n^2)$ comparisons & swaps