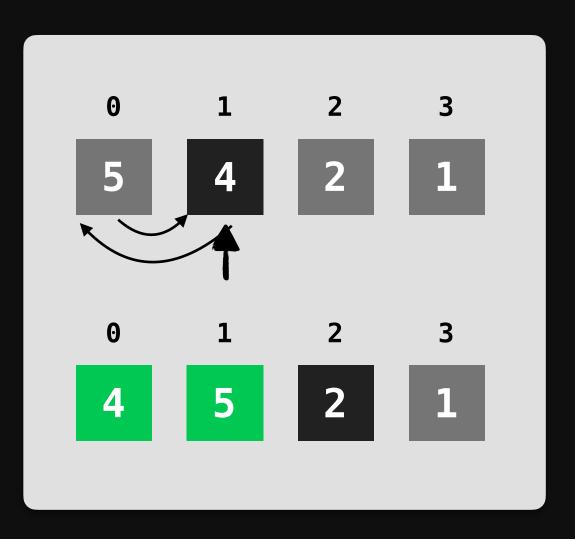
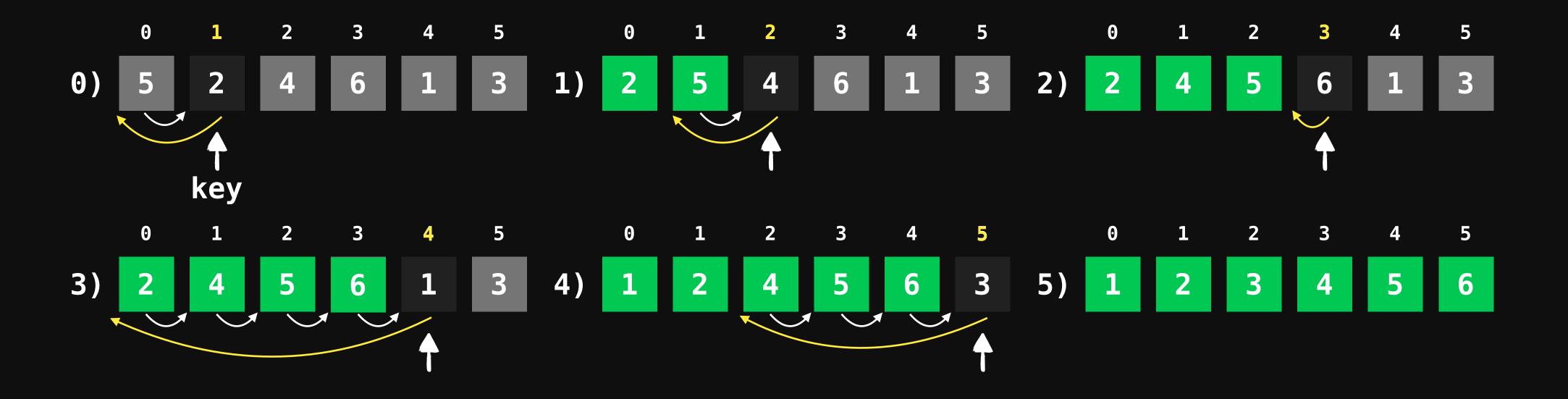
OVERVIEW

- Iterate from LEFT to RIGHT
- INSERT each element into its CORRECT POSITION
- The LEFT side (before the key) is always SORTED



THE ALGORITHM



PSEUDOCODE

```
for j = 1 to A.length
key = A[j]
i = j-1
while i>-1 and A[i]>key
  A[i+1] = A[i]
  i = i-1
A[i+1] = key
```

FACTS

- Simple to implement
- Efficient & Fastest for small data sets
- Time Complexity: O(kn)
- Best: data is sorted -> 0(n)
- Worst: data is sorted in reverse order -> 0(n*n)