



Sort

~~~~~

Sort Left

Sort

Sort

Sort

Sort

Sort ~~Sort~~ right

Sort

Sort

Sort

Sort

Print Array

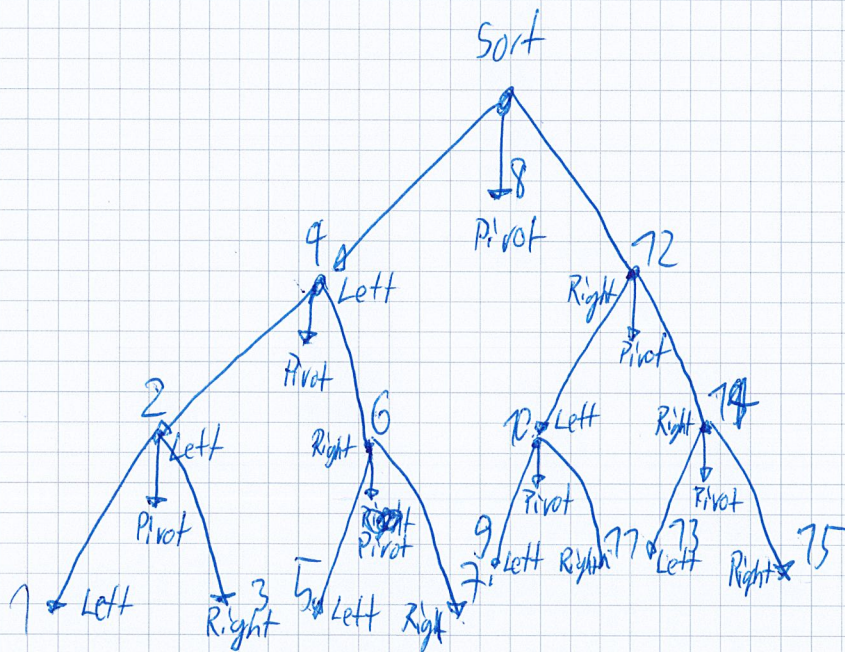


```
def sort(arr)
```

- ~~Wählt~~ Definiere Pivot in Mitte von Array
- Verschiebe alles  $>$  Pivot in Liste Right
- Verschiebe alles  $<$  Pivot in Liste Left

```
( sort(left)  
  sort(right) )
```

```
return arr = (sort(left), sort(right))
```



15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1



~~4, 7, 2, 9, 7, 6, 5~~  
↓  
4

~~1, 4, 3, 5, 9~~

~~1, 5, 9, 4, 6, 3, 2~~

~~1, 9, 3, 2, 4, 5, 6~~

~~1, 2, 3, 9, 4, 5, 6~~

~~1, 2, 3~~

~~1, 2, 3, 4, 5, 6, 9~~

~~1, 5, 9, 4, 6, 3, 2~~

~~1, 3, 2, 4, 5, 6, 9~~

~~1, 2, 3, 4, 5, 6, 9~~

$$33 \quad \underline{1} 33 + 33 = \underline{66} \quad \text{A}$$

$$35 \quad \underline{2} 33 + 35 = \underline{68} \quad \checkmark$$