Quicksort Traversal: (taking the **leftmost element as the pivot**)

P	Q	X	W	B	D	Z
PIVOT	LEFT					RIGHT

- **Ascending** order:
  - o **Left** pointer goes to the right **until** it finds a value **GREATER than** the **pivot**
  - o **Right** pointer goes to the left **until** it finds a value **LESS THAN OR EQUAL** to the pivot
    - ▪ If Left & Right **stop NOT crossing** their position: **Swap** element **between Left and Right**
    - ▪ If Left & Right **stop CROSSING** their position: **Swap** element between **RIGHT** and **PIVOT**
- **Descending** order
  - o Now **REVERSE the moving condition** of LEFT and RIGHT
  - o **Left** pointer goes to the right until it finds a value **LESS than** the pivot
  - o **Right** pointer goes to the left until it finds a value **GREATER THAN OR EQUAL** to the pivot
  - o **Next part remains the same**
    - ▪ If Left & Right **stop NOT crossing** their position: **Swap** element **between Left and Right**
    - ▪ If Left & Right **stop crossing** their position: **Swap** element between **RIGHT** and **PIVOT**

Quicksort Descending Order Example: