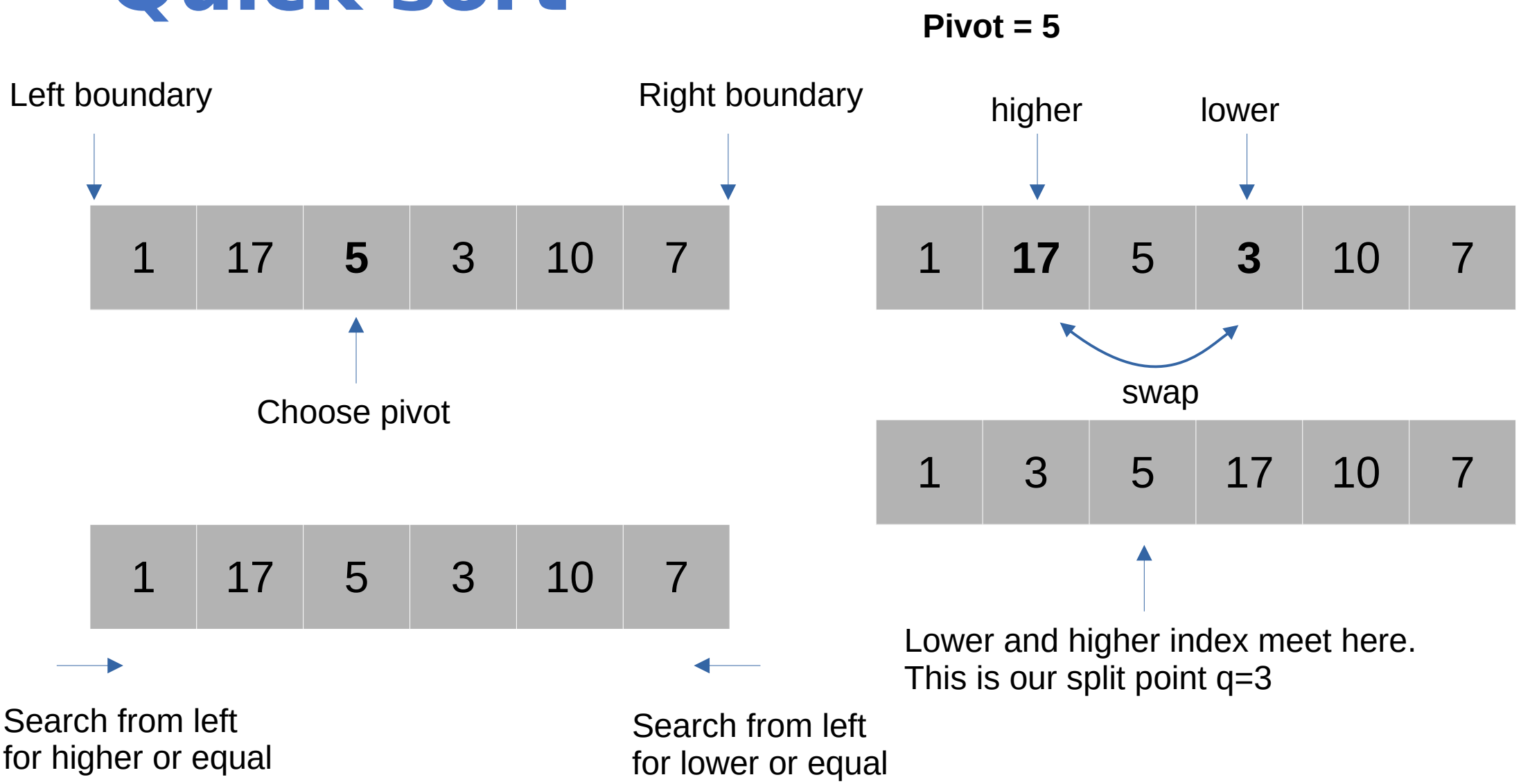
Quick sort

Simeon Monov

Quick sort

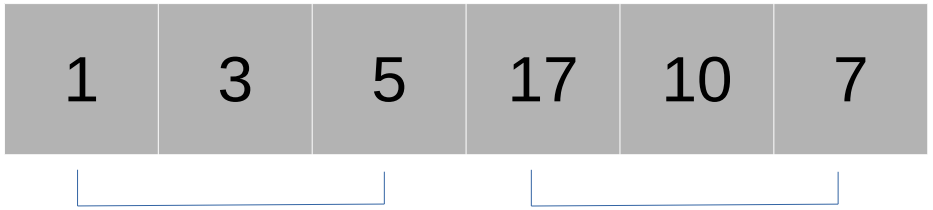
1	17	5	3	10	7

Quick sort

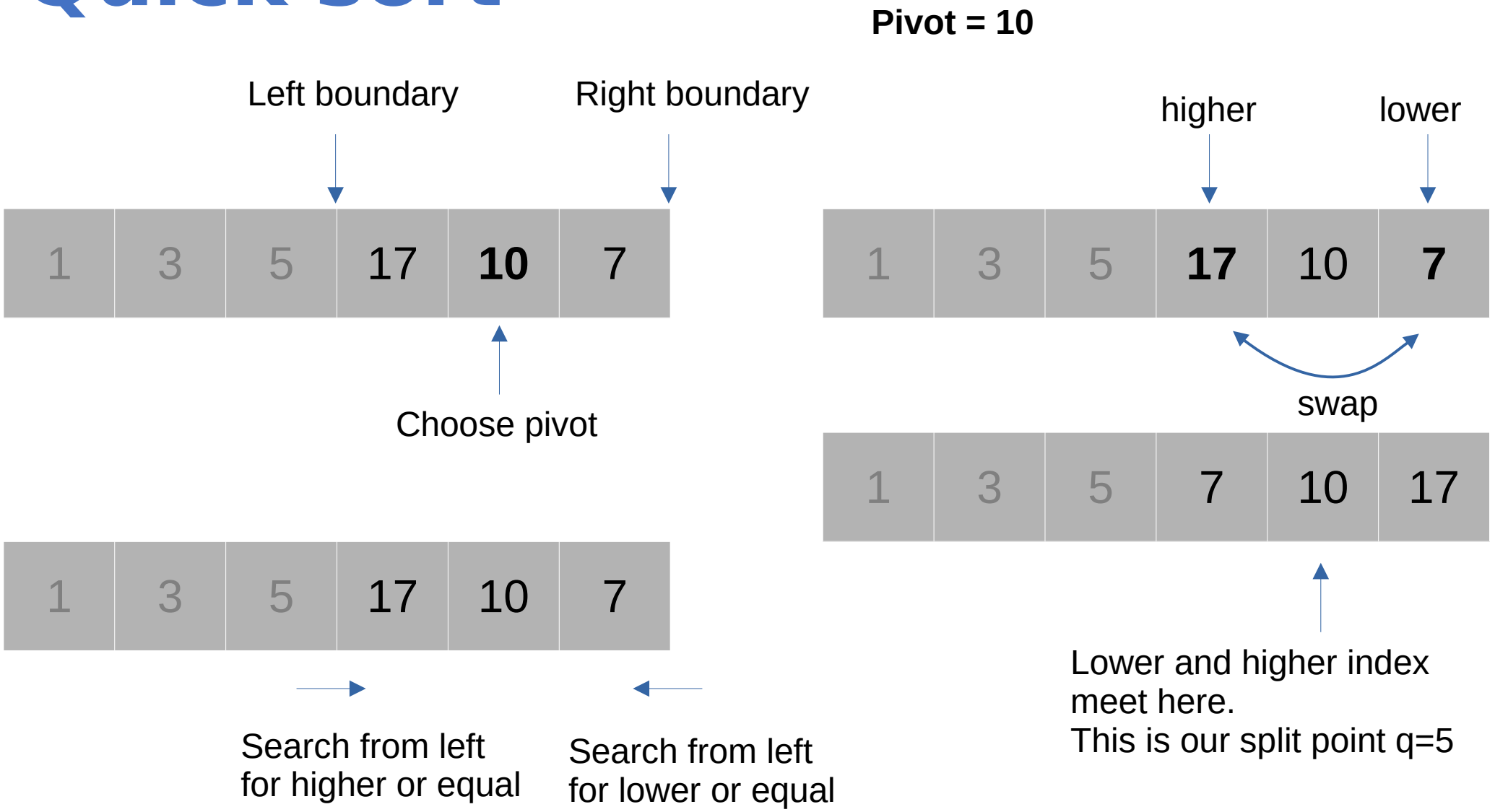

Pivot = 5
Left boundary
Right boundary
higher
lower
1 17 5 3 10 7
1 17 5 3 10 7
Choose pivot
swap
1 3 5 17 10 7
1 17 5 3 10 7
Lower and higher index meet here.
This is our split point q=3
Search from left
for higher or equal
Search from left
for lower or equal

Quick sort

Do same for the following sub-arrays



Quick sort


Pivot = 10
Left boundary
Right boundary
1 3 5 17 10 7
Choose pivot
higher
lower
1 3 5 17 10 7
swap
1 3 5 7 10 17
Lower and higher index meet here.
This is our split point q=5
1 3 5 17 10 7
Search from left for higher or equal
Search from left for lower or equal