Step	Action carried out	State of the list after the action
	Let the sublist consist of the numbers shown with a pivot of 14.	12 19 17 18 14 11 15 13 16
1	Swap the pivot with the last item.	12 19 17 18 16 11 15 13 14
2	Establish the boundary before the first item.	: 12 19 17 18 16 11 15 13 14
3	Scan for the first item less than the pivot.	: 12 19 17 18 16 11 15 13 14
4	Swap this item with the first item after the boundary. In this example, the item gets swapped with itself.	: 12 19 17 18 16 11 15 13 14
5	Advance the boundary.	12 : 19 17 18 16 11 15 13 14
6	Scan for the next item less than the pivot.	12 : 19 17 18 16 11 15 13 14
7	Swap this item with the first item after the boundary.	12 : 11 17 18 16 19 15 13 14
8	Advance the boundary.	12 11 : 17 18 16 19 15 13 14
9	Scan for the next item less than the pivot.	12 11 : 17 18 16 19 15 13 14
10	Swap this item with the first item after the boundary.	12 11 : 13 18 16 19 15 17 14
11	Advance the boundary.	12 11 13 : 18 16 19 15 17 14
12	Scan for the next item less than the pivot; however, there is not one.	12 11 13 : 18 16 19 15 17 14
13	Interchange the pivot with the first item after the boundary. At this point, all items less than the pivot are to the pivot's left and the rest are to its right.	12 11 13 : 14 16 19 15 17 18

14	Let the sublist consist of the numbers partitioned after the pivot 14 was selected, After selecting a new pivot, your middle value will be 16 which will be represented in bold	16 19 ***15*** 17 18
15	Move our pivot to the back of the list, 18 an 15 will swap	16 19 **18** 17 ***15***
16	Establish a boundary and Scan for the first item less than the pivot. Swap this item with the first item after the boundary.	: **16** 19 18 17 ***15***
17	Scan for the next item less than the pivot. In this list there will be no item less than the pivot so our boundary does not advance	:16 **19** 18 17 ***15*** :16 19 **18** 17 ***15*** :16 19 18 **17** ***15***
18	When arriving at 15, 15 == 15 and we satisify a condition to swap with the first item in front of the boundary which will be 16	: 16 19 18 17 ***15***
19	Swap the values	: **15** **19** 18 17 16
20	Now since our pivot was the lowest value, 15 is correctly sorted and all items greater than 15 are on the right to begin a new partition	15 : 19 18 17 16

* Our pivot will be italicized to specify