

11 / 12
 \ 23 17

17 23

Sorted array:

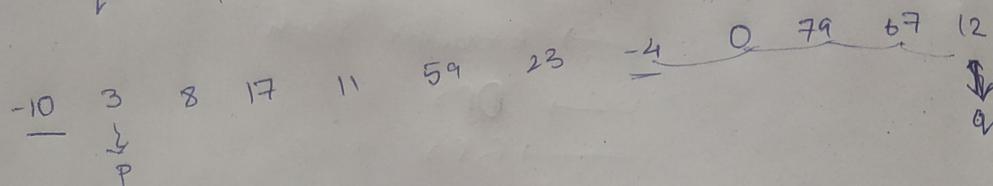
-10 -4 0 3 11 12 17 23 67 79

Quick Sort

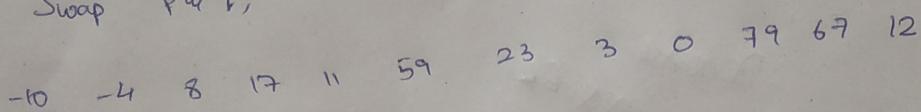
Assignment

-10, 3, 8, 17, 11, 59, 23, -4, 0, 79, 67, 12

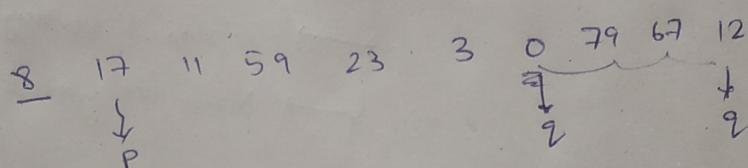
Pivot \leftarrow -10
 $P \leftarrow$ pointer for greater element than pivot
 $q \leftarrow$ pointer for smaller element than pivot



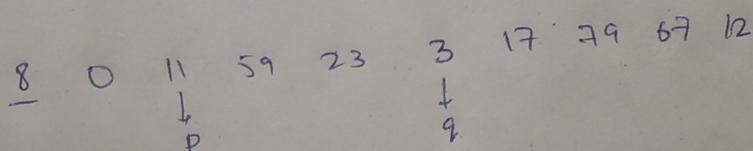
Swap $P \leftrightarrow q$



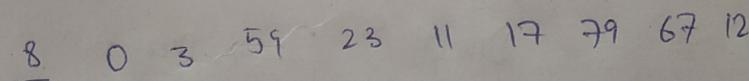
-4



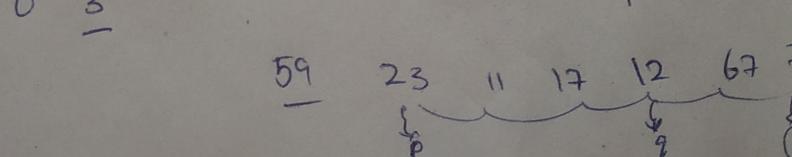
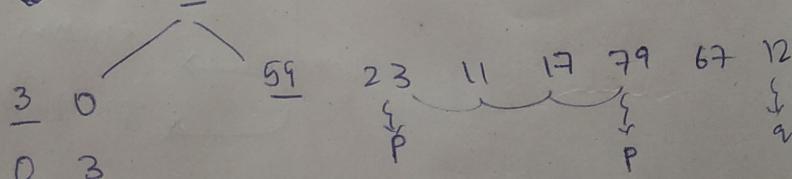
Swap $P \leftrightarrow q$



Swap:



8 0 11 59 23 3 17 79 67 12



12 23 11 17 59 67 79

12 23 11 17 59 67 79

12 11 23 17 59 67 79

Sorted

-1