Linked List Partition
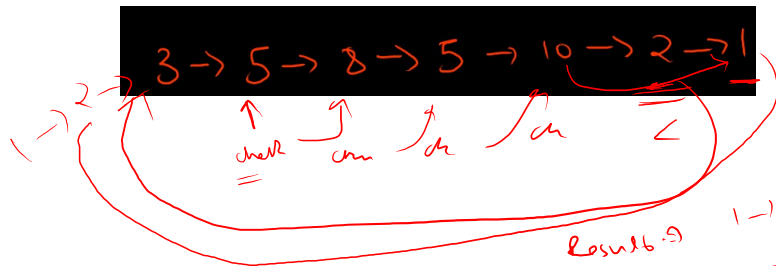
$3 \to 5 \to 8 \to 5 \to 10 \to 2 \to 1 \quad [x = 5]$

So, all the nodes less than x should be before from all the nodes greater than or equal to 5.

One possible solution is

$3 \to 1 \to 2 \to 10 \to 5 \to 5 - 8 \to$ This may be confusing here order does not matter, we can see all that are less are before the greater one than x.

$\to$ One solution that comes to mind is start checking (if node data is less than x then just put it at the head and position of head will not matter as it will go to right on its own if is greater and if less it will be still before the greater ones.

$3 \to 5 \to 8 \to 5 \to 10 \to 2 \to 1$

check   cmn   ch   ch   <

Result:9

$1 \to 2 \to 3 \to 5 \to 8 \to 5 \to 10$

this is valid