Write a function named **rearrangeNodes** which takes as input the head of a linked list and a value x such that all nodes with values less than x come before nodes with values greater than or equal to x. The nodes should be in their relative order. So, for nodes with values less than x, the node that is in an earlier position in the list should come before those that came after it and the same should be followed for those not less than x. The function should return the head of the modified linked list.

**Consider that the Node class is already provided with the elem being the node’s value and next being the location of the next node.**

**You are not allowed to create another linked list with new nodes. You have to modify the currently provided list.**

| **Sample Input** | **Sample Output** |
| --- | --- |
| **head =** 1 -> 4 -> 3 -> 2 -> 5 -> 2  **x =** 3 | **Sample output:** 1 -> 2 -> 2 -> 4 -> 3 -> 5  **Explanation:** The numbers 1, 2 and 2 are less than the value of 3 while 4, 3 and 5 so the nodes with values 1, 2 and 2 come before the rest. For values less than 3, 1 comes before 2 in the unmodified list so after modification it comes before 3 |
| **head =** 2 -> 1  **x =** 2 | **Sample output:** 1 -> 2  **Explanation:** The number 1 is less than 2 while 2 (in the linked list) is not. |

Write a function named **rearrangeNodes** which takes as input the head of a linked list and a value x such that all nodes with values greater than x come before nodes with values less than or equal to x. The nodes should be in their relative order. So, for nodes with values greater than x, the node that is in an earlier position in the list should come before those that came after it and the same should follow for nodes with values not greater than x. The function should return the head of the modified linked list.

**Consider that the Node class is already provided with the elem being the node’s value and next being the location of the next node.**

**You are not allowed to create another linked list with new nodes . You have to modify the currently provided list.**

| **Sample Input** | **Sample Output** |
| --- | --- |
| **head =** 1 -> 4 -> 3 -> 2 -> 5 -> 2  **x =** 3 | **Sample output:** 4 -> 5 -> 1 -> 3 -> 2 -> 2  **Explanation:** The numbers 4 and 5 are greater than the value of 3 while 1, 2, 3 and 3 are not. So, the nodes with values 4 and 5 come before the other nodes. For values greater than 3, 4 comes before 5 in the unmodified list so after modification it comes before 5. |
| **head =** 2 -> 3  **x =** 2 | **Sample output:** 3 -> 2  **Explanation:** The number 3 is greater than 2 while 2 (in the linked list) is not. |