Hacker rank-Merge two sorted linked lists

```
SinglyLinkedListNode* mergeLists(SinglyLinkedListNode* head1, SinglyLinkedListNode*
    SinglyLinkedListNode *head3 = NULL, *t1 = head1, *t2 = head2, *t3 = NULL;
    while (t1 != NULL && t2 != NULL) {
        SinglyLinkedListNode* newNode = malloc(sizeof(SinglyLinkedListNode));
        if (t1->data < t2->data) {
            newNode->data = t1->data;
            t1 = t1->next;
        } else {
            newNode->data = t2->data;
            t2 = t2 - \text{next};
        newNode->next = NULL;
        if (head3 == NULL) {
            head3 = newNode;
            t3 = head3;
        } else {
            t3->next = newNode;
            t3 = newNode;
        }
    }
    // If one of the lists is not fully processed, append the remaining elements to
 the merged list.
    if (t1 != NULL) {
        if (head3 == NULL) {
            head3 = t1;
        } else {
            t3->next = t1;
        }
    }
    if (t2 != NULL) {
        if (head3 == NULL) {
            head3 = t2;
        } else {
            t3->next = t2;
        }
    }
    return head3;
}
```



