SingleLL1... intersect... Submit

Explorer Debugger Plots

```c
struct node {
    int data;
    struct node *next;
};
typedef struct node * NODE;

NODE createAndAddNodes(NODE first) {
    NODE temp, q;
    int x;
    printf("Enter element : ");
    scanf("%d", &x);
    while(x != -1) {
        temp = (NODE)malloc(sizeof(struct node));
        temp->data = x;
        temp->next = NULL;
        if(first == NULL) {
            first = temp;
        } else {
            q->next = temp;
        }
        q = temp;
        printf("Enter element : ");
        scanf("%d", &x);
    }
    return first;
}

NODE sort(NODE first)
{
    NODE t1,t2;
    int x;
    for( t1 = first ; t1->next != NULL ; t1 = t1->next )
    {
        for( t2 = t1->next ; t2 != NULL ; t2 = t2->next )
        {
            if( t1->data > t2->data )
            {
                x = t1->data;
                t1->data = t2->data;
                t2->data = x;
            }
        }
    }
```

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45      return first;
46  }
47
48  NODE add(NODE l3,int x)
49  {
50      NODE temp = malloc( sizeof(struct node) );
51      temp->next = NULL;
52      temp->data = x;
53      if(l3== NULL)
54      {
55          return temp;
56      }
57
58      NODE t = l3;
59      while( t->next != NULL )
60      {
61          t = t->next;
62      }
63      t->next = temp;
64
65      return l3;
66  }
67
68  NODE intersectionSLL(NODE l1,NODE l2)
69  {
70      NODE t1 = l1, t2 = l2 , l3 = NULL;
71
72      while( t1 != NULL && t2 != NULL )
73      {
74          if( t1->data < t2->data )
75          {
76              t1 = t1->next;
77          }
78          else if( t1->data > t2->data  )
79          {
80              t2 = t2->next;
81          }
82          else
83          {
84              l3 = add(l3 , t1->data );
85              t1 = t1->next;
86              t2 = t2->next;
87          }
88      }
89
```

```
    return l3;
}

void print(NODE first) {
    NODE q = first;
    if (first == NULL) {
        printf("Single Linked List is empty\n");
    } else {
        printf("Elements in the list are :");
        while (q != NULL) {
            printf("%d---> ", q -> data);
            q = q -> next;
        }
        printf("NULL\n");
    }
}
```

Terminal Test cases