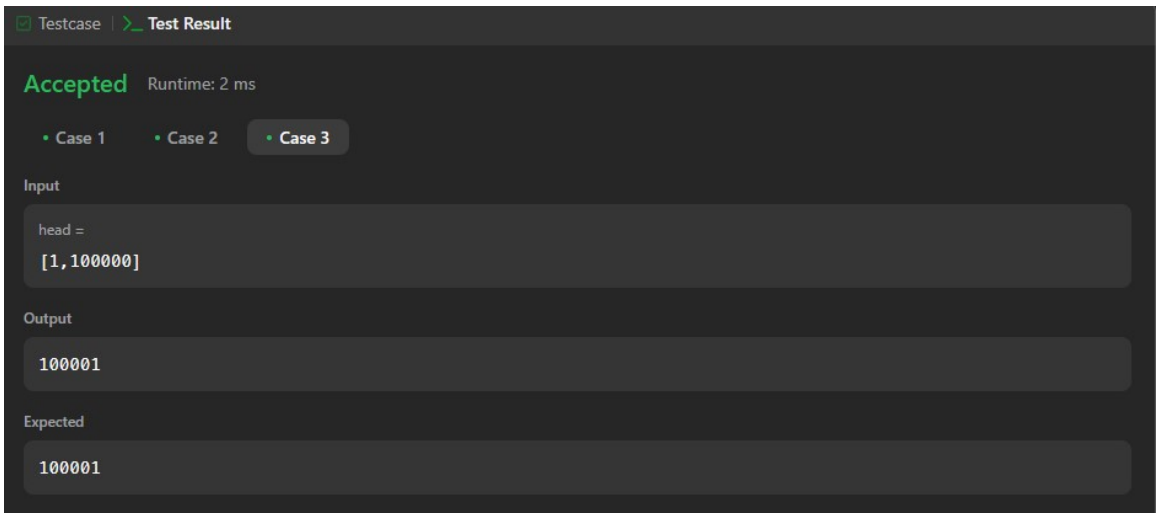
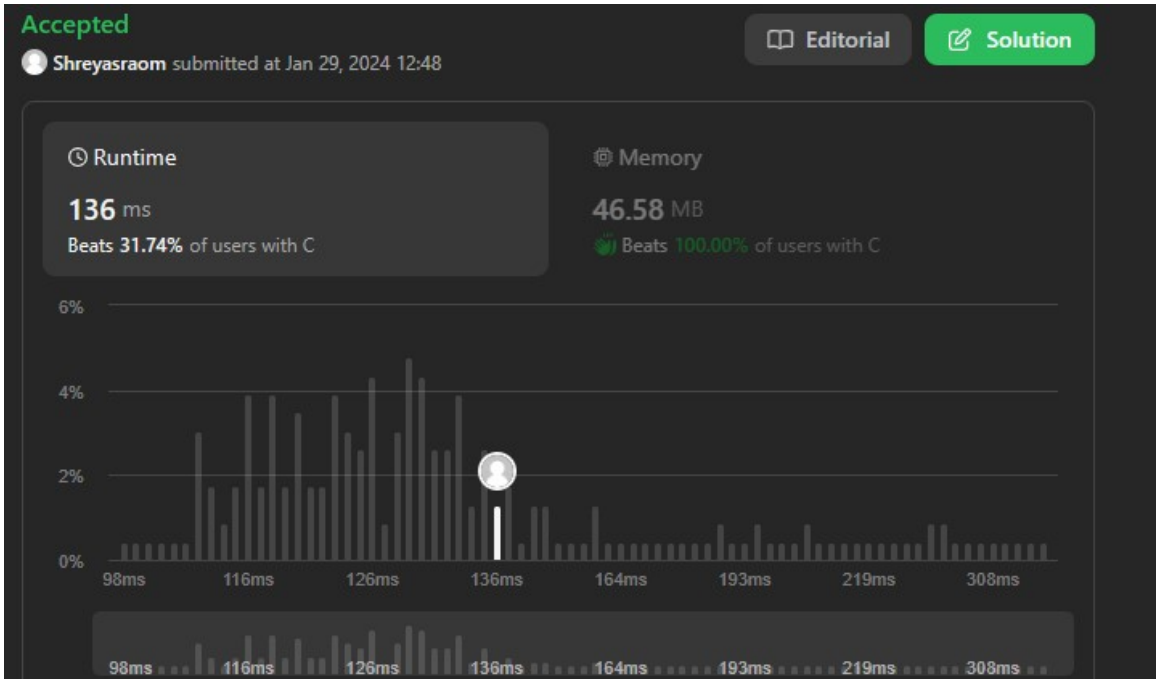
```
/**
 * Definition for singly-linked list.
 * struct ListNode {
 *     int val;
 *     struct ListNode *next;
 * };
 */
 struct ListNode* reverse(struct ListNode* head)
{
       struct ListNode*p = NULL, *q = NULL, *r = head;


       while(r!= NULL){
          p = q;
          q = r;
          r = r->next;
          q->next = p;
       }
       head = q;
       return head;
}


int pairSum(struct ListNode* head) {
   if(head == NULL){
          return -1;
```

```
}

//if only 2 nodes
if(head->next->next ==NULL){
   int sum = head->val + head->next->val;
   return sum;
}

struct ListNode *temp = head ,*s = head , *f = head->next;

// find middle
while(f!=NULL){
   f = f->next;
   if(f!=NULL){
      f = f->next;
      s = s->next;
   }
}

struct ListNode* second = reverse(s->next);
s->next = second;
struct  ListNode* first = head;

int ans = INT_MIN;
```

```
        while(second != NULL){
            int data = first->val + second->val;
            ans = fmax(ans,data);
            first = first->next;
            second = second->next;
        }


        return ans;
}
```




Accepted
Shreyasraom submitted at Jan 29, 2024 12:48
Editorial
Solution
Runtime
136 ms
Beats 31.74% of users with C
Memory
46.58 MB
Beats 100.00% of users with C
6%
4%
2%
0%
98ms
116ms
126ms
136ms
164ms
193ms
219ms
308ms