Add Two Numbers (/problems/add-two-numbers/)

Submission Detail

1568 / 1568 test cases passed.
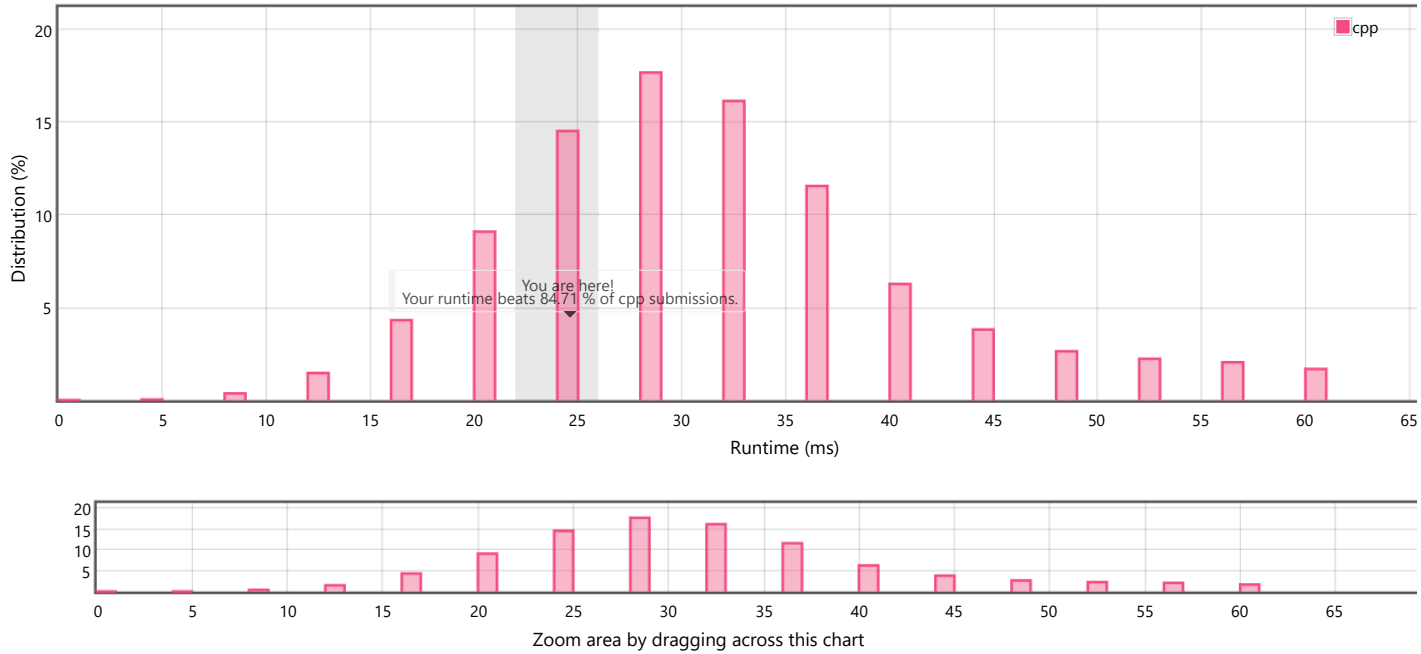
Runtime: **24 ms**
Memory Usage: **71.4 MB**
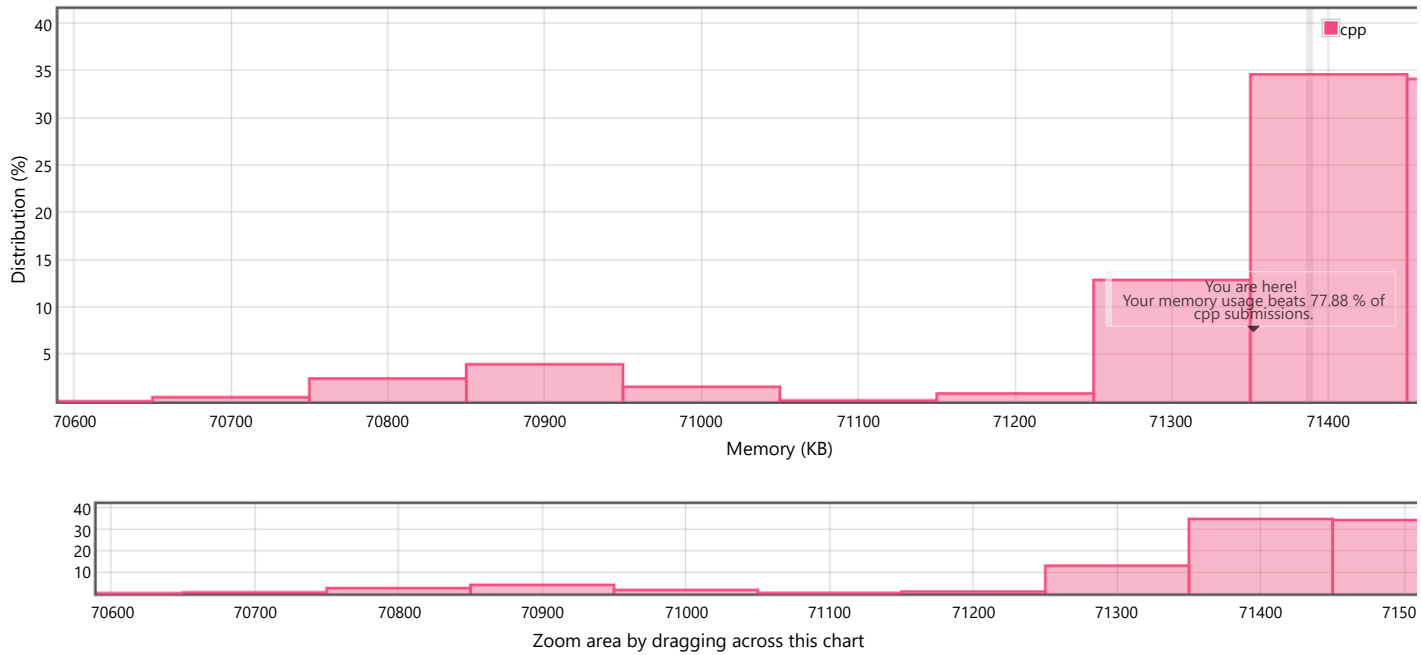
Status: **Accepted**

Submitted: **0 minutes ago**

Accepted Solutions Runtime Distribution

You are here!
Your runtime beats 84.71 % of cpp submissions.

Zoom area by dragging across this chart

Accepted Solutions Memory Distribution

You are here!
Your memory usage beats 77.88 % of cpp submissions.

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Invite friends to challenge **Add Two Numbers**

◁ **130**

Submitted Code: 0 minutes ago

Language: cpp

Edit Code

```
1  /**
2   * Definition for singly-linked list.
```

```cpp
 3   * struct ListNode {
 4   *     int val;
 5   *     ListNode *next;
 6   *     ListNode() : val(0), next(nullptr) {}
 7   *     ListNode(int x) : val(x), next(nullptr) {}
 8   *     ListNode(int x, ListNode *next) : val(x), next(next) {}
 9   * };
10   */
11  class Solution {
12  public:
13      ListNode* addTwoNumbers(ListNode* l1, ListNode* l2) {
14          ListNode* ans = new ListNode();
15          ListNode* temp = ans;
16          int carry = 0;
17          int val = 0;
18
19          while((l1 != NULL) || (l2 != NULL))
20          {
21              val = 0;
22
23              if(l1 == NULL)
24                  val = l2->val;
25              else if(l2 == NULL)
26                  val = l1->val;
27              else
28                  val = l1->val + l2->val;
29
30              if(carry != 0)
31                  val+=carry;
32
33              if(val>=10)
34              {
35                  carry = val/10;
36                  val = val%10;
37              }
38              else
39                  carry = false;
40
41              temp->val = val;
42
43              if(l1 != NULL)  l1 = l1->next;
44              if(l2 != NULL)  l2 = l2->next;
45
46              if((l1 != NULL) || (l2 != NULL) || (carry != 0))
47              {
48                  temp->next = new ListNode();
49                  temp = temp->next;
50              }
51          }
52
53          if(carry != 0)
54              temp->val += carry;
55
56          return ans;
57      }
58  };
```

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