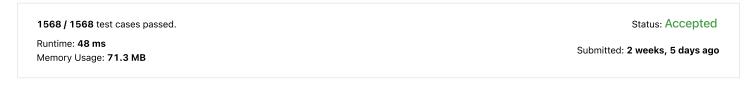
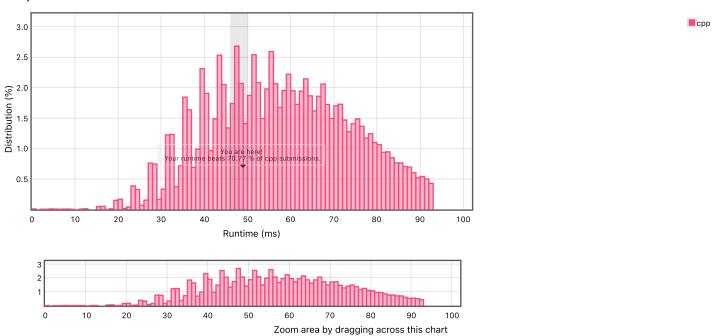
∘ ∘palindromic-paths in-a-binary-tree/)

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

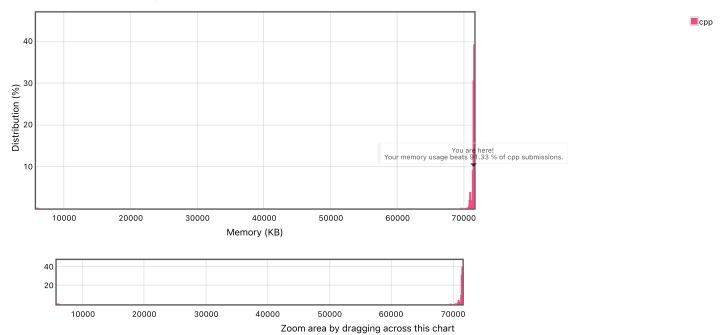
#### **Submission Detail**



## **Accepted Solutions Runtime Distribution**



## **Accepted Solutions Memory Distribution**



Invite friends to challenge Add Two Numbers

**130** 

#### Submitted Code: 2 weeks, 5 days ago

Language: cpp Edit Code

```
1
    * Definition for singly-linked list.
2
    * struct ListNode {
3
4
           int val;
           ListNode *next;
5
6
           ListNode() : val(0), next(nullptr) {}
7
           ListNode(int x) : val(x), next(nullptr) {}
           ListNode(int x, ListNode *next) : val(x), next(next) {}
8
    * };
9
    */
10
                            /* printf */
   #include <stdio.h>
11
   #include <math.h>
                            /* pow */
    class Solution {
13
    public:
14
        ListNode* addTwoNumbers(ListNode* l1, ListNode* l2) {
15
            int in1=0;
16
17
            int in2=0;
18
            int k=0;
19
20
21
            ListNode* solution_ptr= new ListNode(); //this pointer allocates
22
            ListNode* solution = solution_ptr; // points at head of solution
23
24
25
            while(l1 !=nullptr|| l2!=nullptr){
26
27
                if (k>0){
28
29
                if(solution_ptr->next!=nullptr)
30
                    solution_ptr=solution_ptr->next;
31
                else{
32
                    solution_ptr->next=new ListNode();
33
                   solution_ptr= solution_ptr->next;
34
                }
35
                }
36
37
                in1=0;
38
39
                in2=0;
40
                if(l1!=nullptr){
41
               in1=l1->val;
42
43
                if (l2!=nullptr){
44
                in2=12->val;
45
            //l1, l2 next all initialize to 0 if non-existing, else as stated.
46
47
48
                if(solution_ptr->val+in1+in2>=10){ //plus one to the next decimal
                    place
49
50
                    solution_ptr->val=solution_ptr->val+in1+in2-10;
51
                    solution_ptr->next= new ListNode(1); //add to next decimal
                        place
52
53
                }else{
54
                    //no greater than 10 case
55
                    solution_ptr->val= solution_ptr->val+(in1+in2);
56
                }
57
          if(l1!=nullptr){
58
59
              l1=l1->next;}
60
             if (l2!=nullptr){
61
62
63
                 12=12->next;}
64
65
                k++; //counting iteration
66
67
        }
68
              return solution;
69
        }
70
```

Back to problem (/problems/add-two-numbers/)

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