

Merge k Sorted Lists (/problems/merge-k-sorted-lists/)

Submission Detail

**133 / 133** test cases passed.

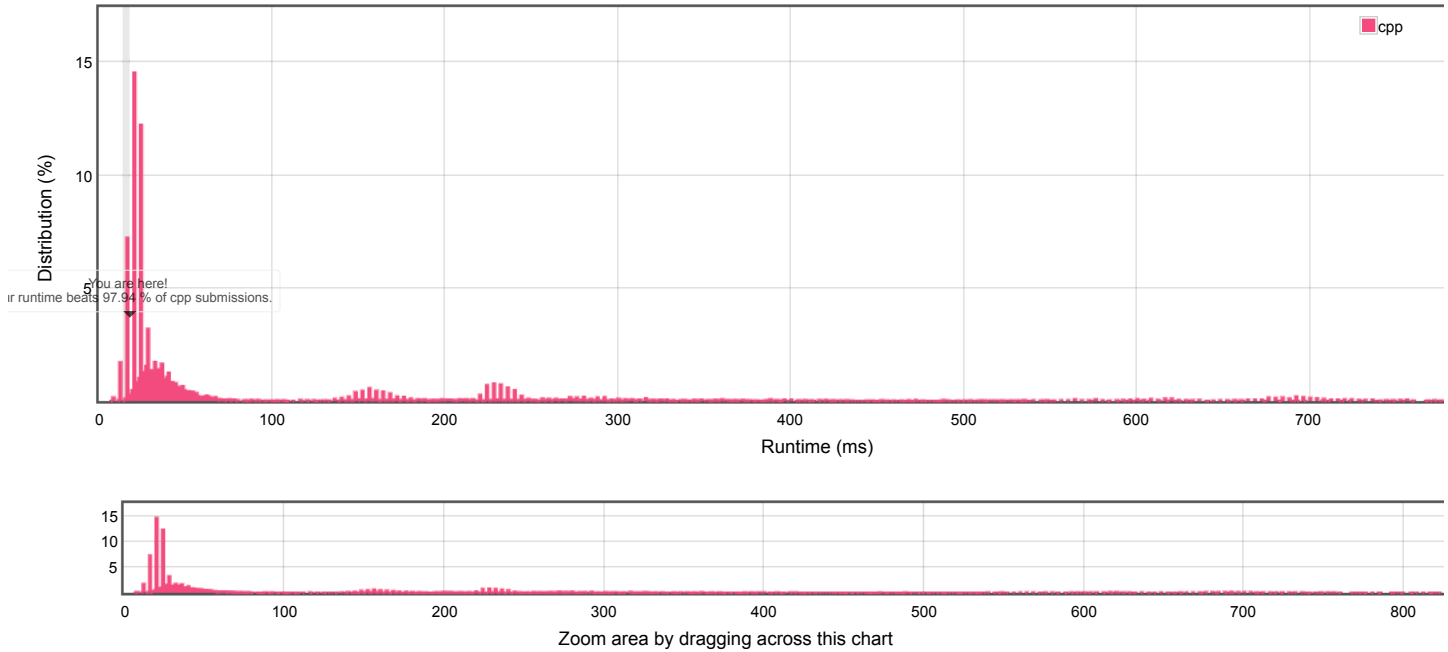
Runtime: **16 ms**

Memory Usage: **13.3 MB**

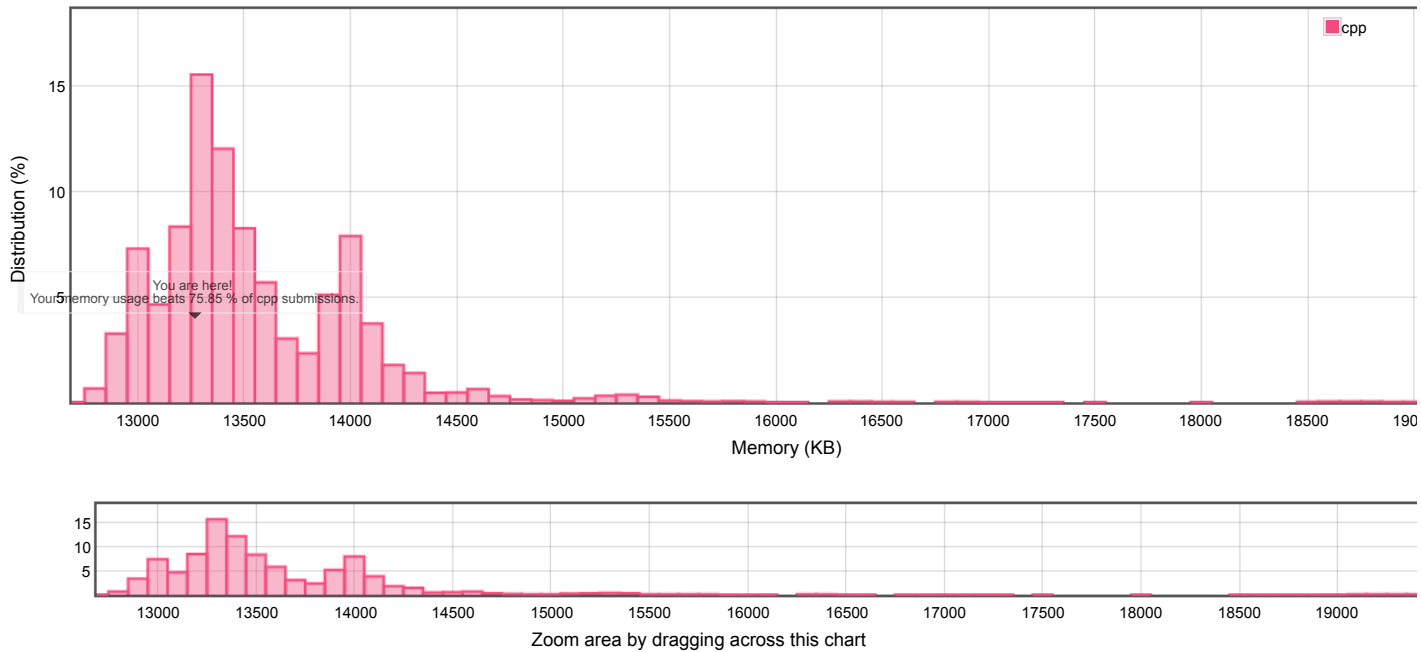
Status: **Accepted**

Submitted: **0 minutes ago**

Accepted Solutions Runtime Distribution



Accepted Solutions Memory Distribution



Invite friends to challenge **Merge k Sorted Lists**

28

Submitted Code: 0 minutes ago

Language: cpp

Edit Code


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

```
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     struct comparexx{
14         bool operator()(ListNode*A,ListNode*B){
15             return A->val > B->val;
16         }
17     };
18     ListNode*mergeKLists(vector<ListNode*>& lists){
19         priority_queue<ListNode*,vector<ListNode*>,comparexx> AB;
20         for(auto A: lists){
21             if(A) AB.push(A);
22         }
23         if(AB.empty()){
24             return nullptr;
25         }
26         ListNode* rpta = AB.top(); AB.pop();
27         ListNode* tail = rpta;
28         if(tail->next) AB.push(tail->next);
29         while(!AB.empty()){
30             tail->next = AB.top(); AB.pop();
31             tail = tail->next;
32             if(tail->next) {
33                 AB.push(tail->next);
34             }
35         }
36         return rpta;
37     }
38 };
39
40
41
42
43
```

[Back to problem \(/problems/merge-k-sorted-lists/\)](/problems/merge-k-sorted-lists/)

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