

Count of Range Sum (/problems/count-of-range-sum/)

Submission Detail

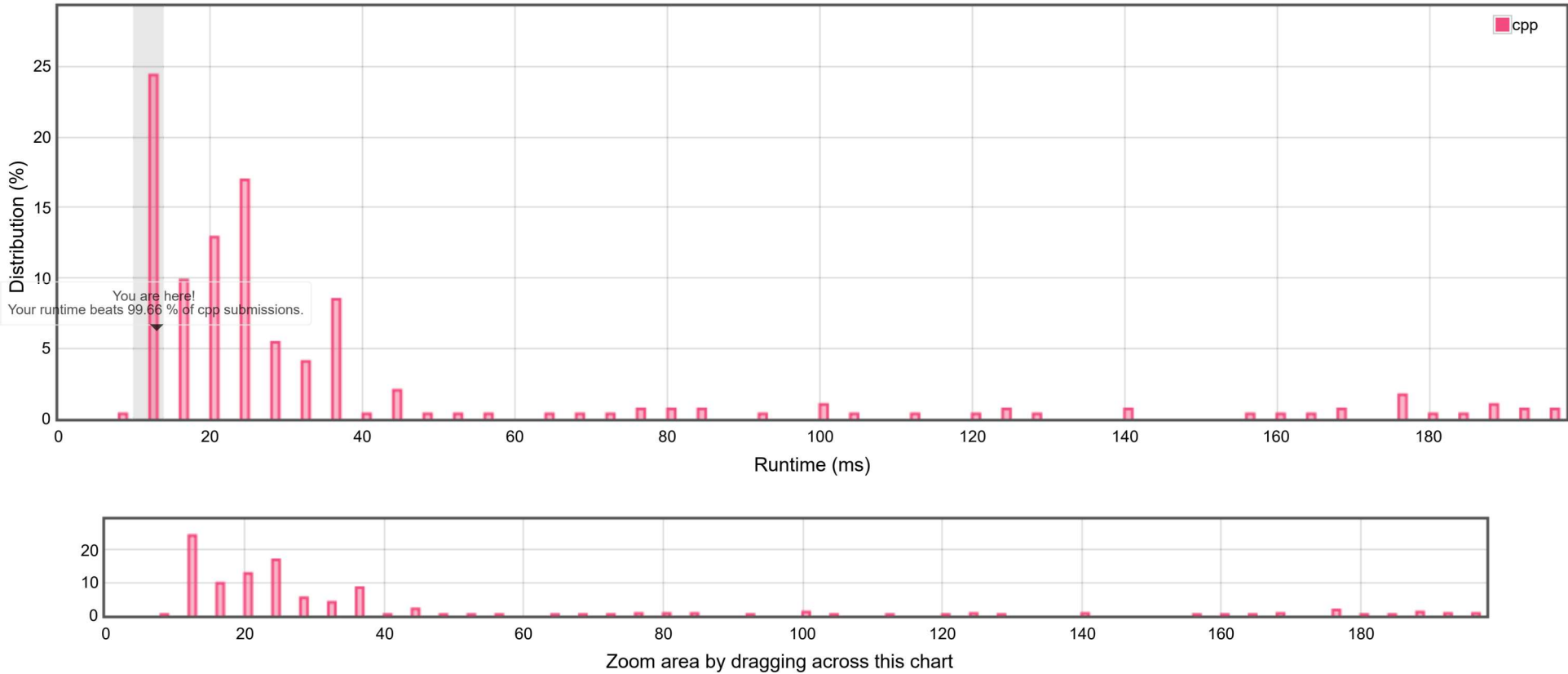
61 / 61 test cases passed.

Runtime: 12 ms

Status: Accepted

Submitted: 1 hour, 4 minutes ago

Accepted Solutions Runtime Distribution



Submitted Code: 1 hour, 4 minutes ago

Language: cpp

[Edit Code](#)

```
1 class Solution {
2     private:
3
4         int count(vector<long>& sums, int left, int right, int lower, int upper) {
5
6             if (left >= right) {
7                 return 0;
8             }
9
10            int mid = (left + right) / 2, m = mid + 1, n = mid + 1;
11            int curCount = count(sums, left, mid, lower, upper) + count(sums, mid + 1, right, lower, upper);
12            for (int i = left; i <= mid; i++) {
13                while (m <= right && sums[m] - sums[i] < lower) m++;
14                while (n <= right && sums[n] - sums[i] <= upper) n++;
15                curCount += n - m;
16            }
17            inplace_merge(sums.begin() + left, sums.begin() + mid + 1, sums.begin() + right + 1);
18
19            return curCount;
20        }
21    }
22
23    public:
24
25        int countRangeSum(vector<int>& nums, int lower, int upper) {
26
27            vector<long> sums(nums.size() + 1, 0);
28            for (int i = 0; i < nums.size(); i++) {
29                sums[i + 1] = (long)sums[i] + nums[i];
30            }
31            return count(sums, 0, sums.size() - 1, lower, upper);
32        }
33    }
34
35 };
36
```

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