

Race Car (/problems/race-car/)

Submission Detail

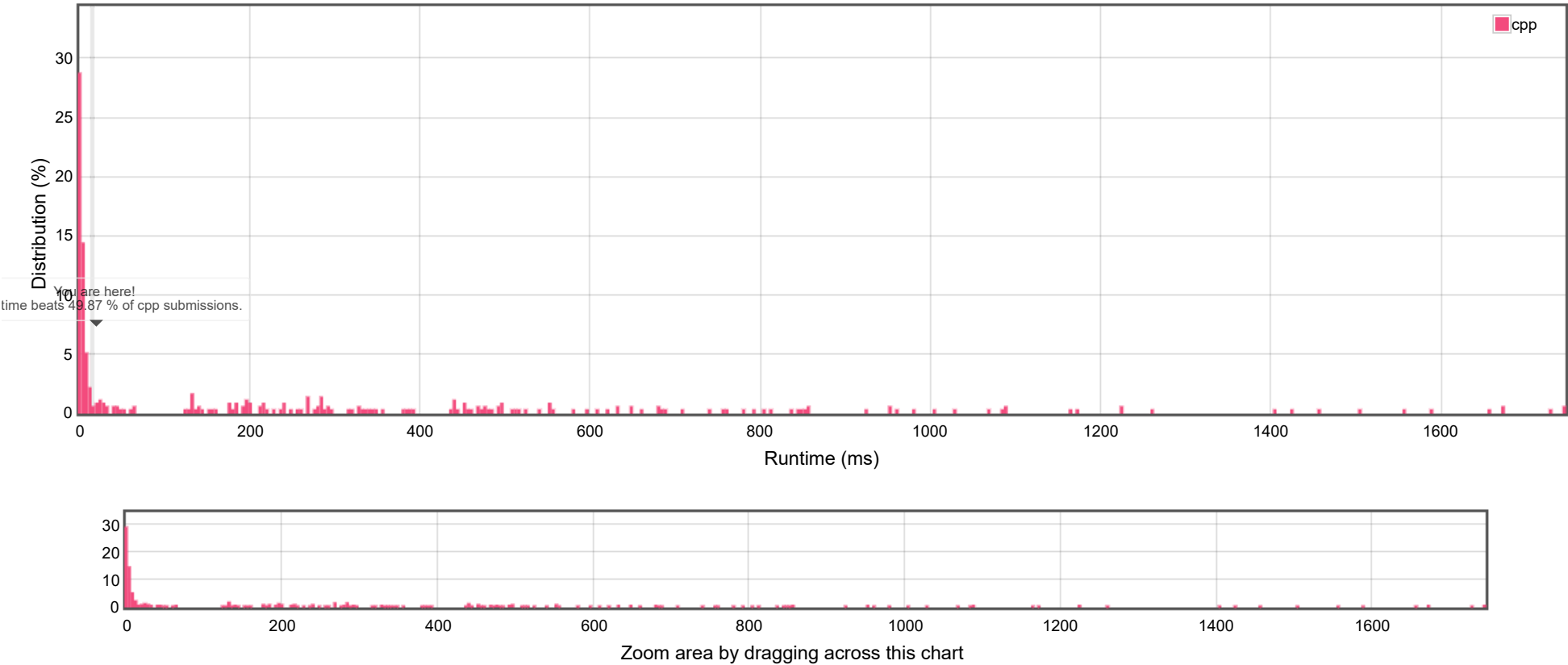
53 / 53 test cases passed.

Runtime: 16 ms

Status: Accepted

Submitted: 1 hour, 13 minutes ago

Accepted Solutions Runtime Distribution



Invite friends to challenge **Race Car**

Submitted Code: 1 hour, 13 minutes ago

Language: cpp

Edit Code

```
1 #include <climits>
2
3 class Solution {
4 public:
5     int racecar(int target) {
6
7         int F[10000];
8         for (int i = 0; i < 10000; i++) F[i] = INT_MAX;
9         F[0] = 0;
10        int N = (int)ceil(log2((double)(target + 1)));
11        if ((1 << N) - 1 == target)
12            return N;
13        for (int i = 1; i <= target; i++) {
14            int n = (int)ceil(log2((double)(i + 1)));
15            if ((1 << n) - 1 == i) {
16                F[i] = n;
17            } else {
18                for (int j = 1; j < n; j++) {
19                    for (int k = 0; k < j; k++) {
20                        int nstep = j + k + 2 + F[i - ((1 << j) - (1 << k))];
21                        if (nstep < F[i])
22                            F[i] = nstep;
23                    }
24                }
25                int nstep = n + 1 + F[(1 << n) - 1 - i];
26                if (nstep < F[i])
27                    F[i] = nstep;
28            }
29        }
30        return F[target];
31    }
32 }
33 };
34
```

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