Race Car (/problems/race-car/)

Submission Detail

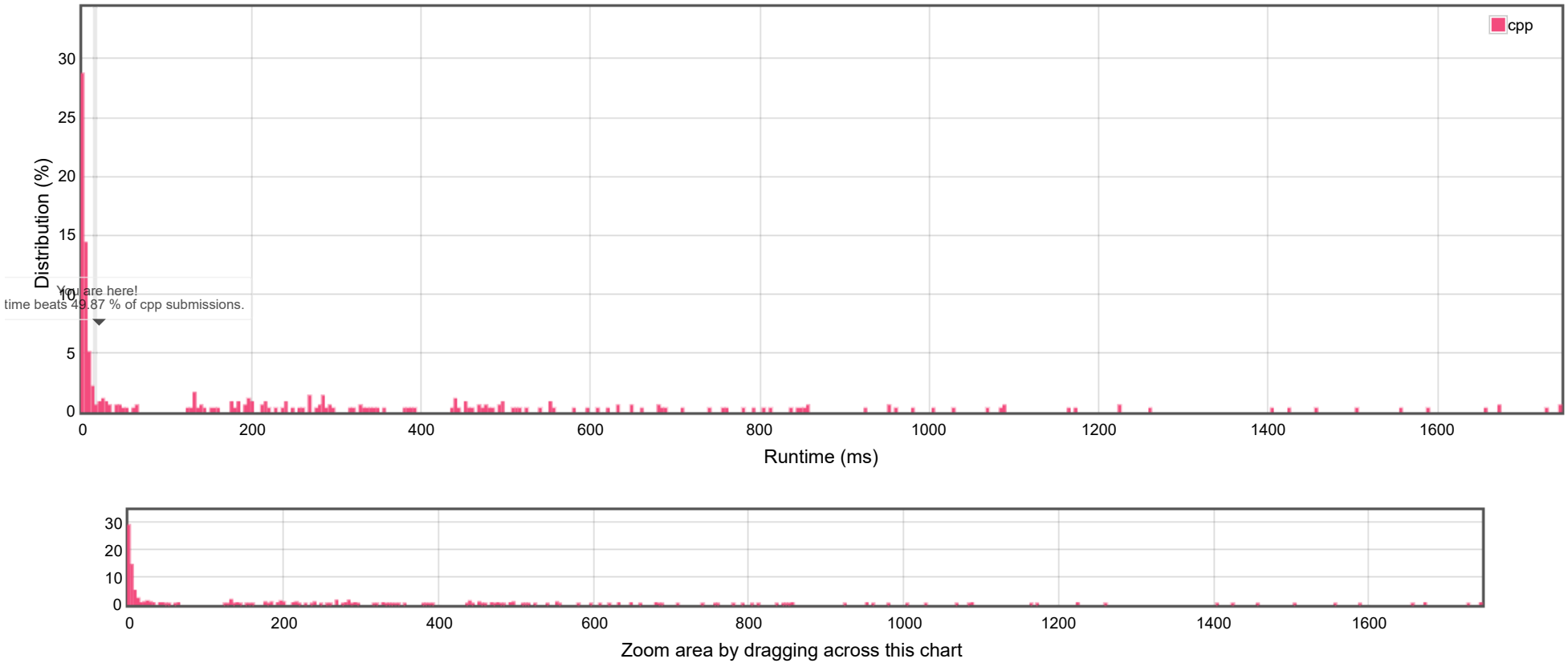
53 / 53 test cases passed.

Status: Accepted

Runtime: **16 ms**

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

```cpp
#include <climits>

class Solution {
public:
    int racecar(int target) {

        int F[10000];
        for (int i = 0; i < 10000; i++) F[i] = INT_MAX;
        F[0] = 0;
        int N = (int)ceil(log2((double)(target + 1)));
        if ((1 << N) - 1 == target)
            return N;
        for (int i = 1; i <= target; i++) {
            int n = (int)ceil(log2((double)(i + 1)));
            if ((1 << n) - 1 == i) {
                F[i] = n;
            } else {
                for (int j = 1; j < n; j++) {
                    for (int k = 0; k < j; k++) {
                        int nstep = j + k + 2 + F[i - ((1 << j) - (1 << k))];
                        if (nstep < F[i])
                            F[i] = nstep;
                    }
                }
                int nstep = n + 1 + F[(1 << n) - 1 - i];
                if (nstep < F[i])
                    F[i] = nstep;
            }
        }
        return F[target];

    }
};

```

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