DP. Let $f[i]$ denote the number of trees with the root being $A[i]$. $O(n^2)$.
Remark. the number of possible pairs of $\log a + \log b = \log c$ is small when U is small using additive combinatorics, and use the reporting of 3SUM to solve in roughly $O(\frac{n^2}{\log^2 n})$ time?

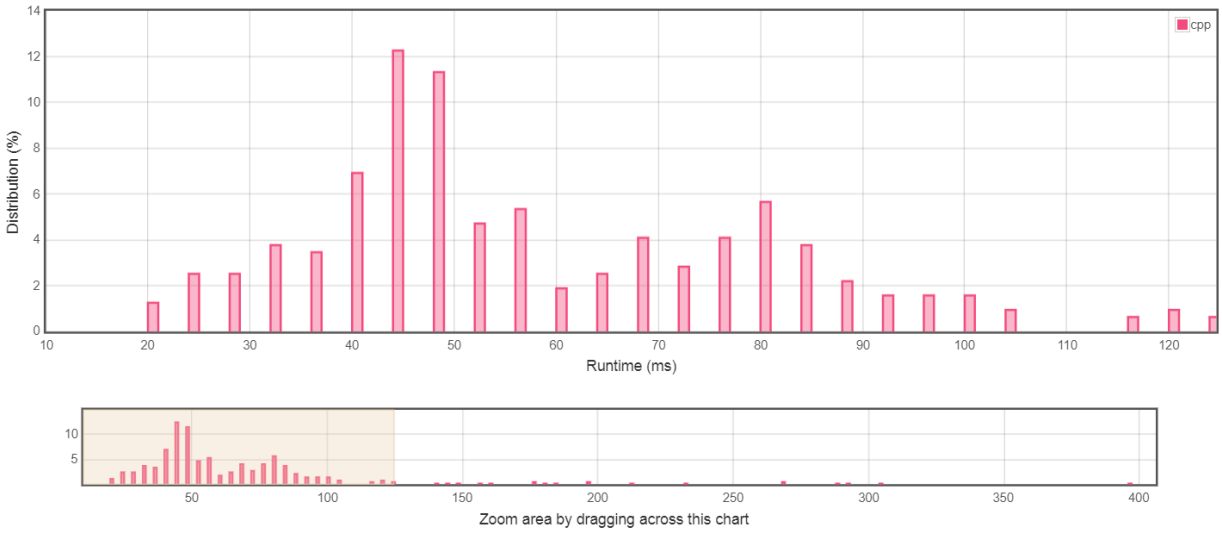
47 / 47 test cases passed.

Status: Accepted

Runtime: **8 ms**
Memory Usage: **14.3 MB**

Submitted: **0 minutes ago**

Accepted Solutions Runtime Distribution



Runtime: 8 ms, faster than 100.00% of C++ online submissions for Binary Trees With Factors.

Memory Usage: 14.3 MB, less than 100.00% of C++ online submissions for Binary Trees With Factors.

References