

this is CF 448D <http://codeforces.com/contest/448/problem/D>.

1. reduce to 378. Kth Smallest Element in a Sorted Matrix. $\tilde{O}(\sqrt{k})$.

2. binary search for the value t , then count the number of integral points under the curve $xy \leq t$, using Stern-Brocot tree (朱震霆, 国家集训队2018论文集: 一些特殊的数论函数求和问题), and [1]. $\tilde{O}(k^{\frac{1}{3}})$.

see my article <https://leetcode.cn/problems/kth-smallest-number-in-multiplication-table/solution/by-hqztrue-lv4e/>

Kth Smallest Number in Multiplication Table

Submission Detail

70 / 70 test cases passed.

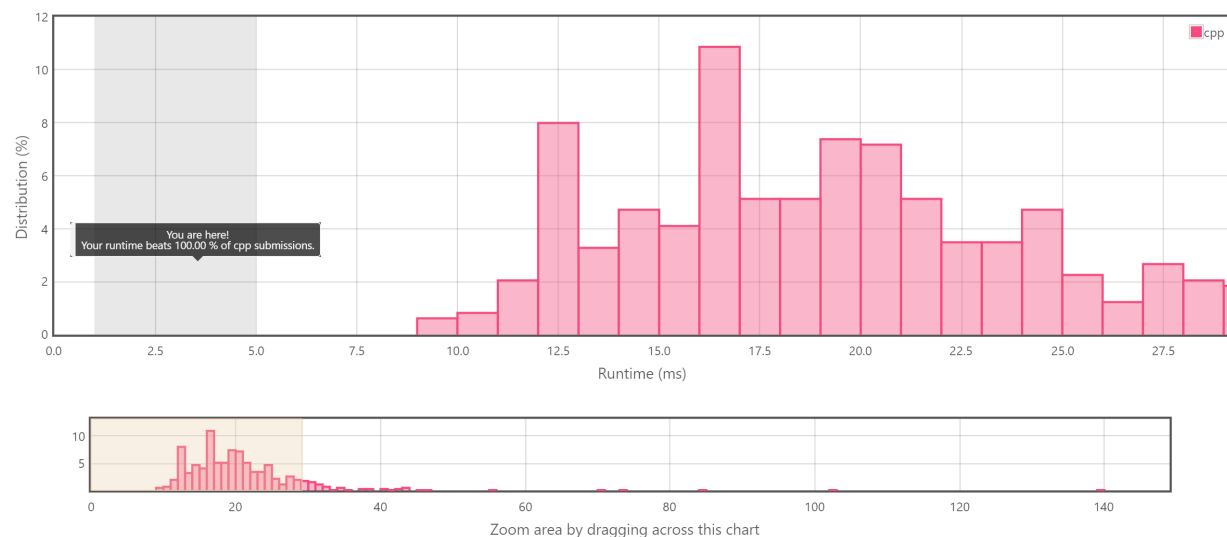
Runtime: 3 ms

Memory Usage: 6.2 MB

Status: Accepted

Submitted: 0 minutes ago

Accepted Solutions Runtime Distribution



References

- [1] Richard Sladkey. A successive approximation algorithm for computing the divisor summatory function. *arXiv preprint arXiv:1206.3369*, 2012.