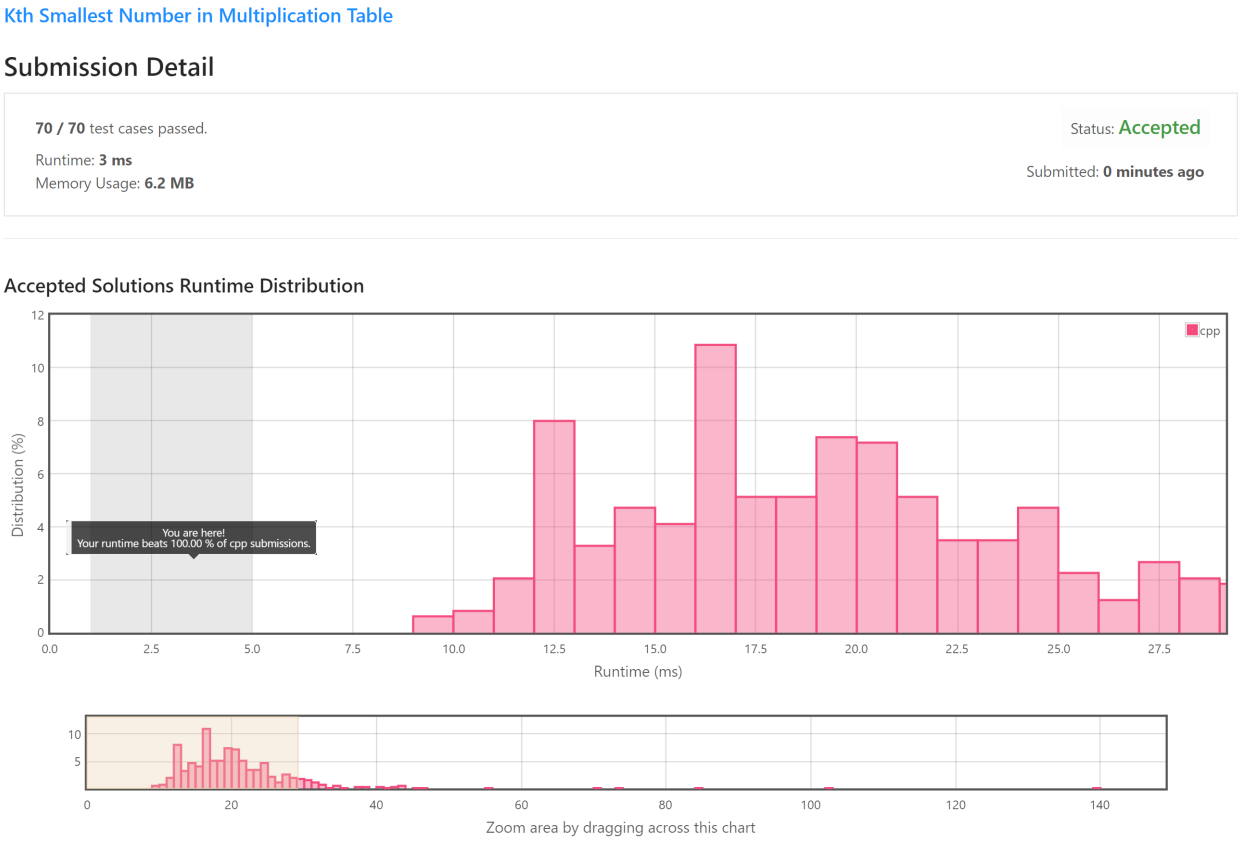
this is CF 448D http://codeforces.com/contest/448/problem/D.
1. reduce to 378. Kth Smallest Element in a Sorted Matrix. $\tilde{O}(\sqrt{k})$.
2. binary search for the value t, then count the number of integral points under the curve $xy \leq t$, using Stern-Brocot tree (朱震霆，国家集训队2018论文集：一些特殊的数论函数求和问题), 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/



References

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