

offline, reduce to offline dominance (or orthogonal range) counting in 2D. $O(n\sqrt{\log n})$ [1].

References

- [1] Timothy M. Chan and Mihai Pătraşcu. Counting inversions, offline orthogonal range counting, and related problems. In *Proceedings of the twenty-first annual ACM-SIAM symposium on Discrete Algorithms*, pages 161–173. Society for Industrial and Applied Mathematics, 2010.