

this is related to 750. number of corner rectangles, for a general point set.

1. $O(n^{3/2})$ [2].
2. $O(n^{4/3})$? (the same running time as detection [1])

References

- [1] Noga Alon, Raphael Yuster, and Uri Zwick. Finding and counting given length cycles. *Algorithmica*, 17(3):209–223, 1997.
- [2] Marc J Van Kreveld and Mark T De Berg. Finding squares and rectangles in sets of points. *BIT Numerical Mathematics*, 31(2):202–219, 1991.