

Windowing Query

Stabbing With A Segment

- Complexity

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❖ $\sum_i n_i = n$

❖ Storage

$$\sum_i c_i \cdot n_i \cdot \log(n_i) = \boxed{\mathcal{O}(n \log n)}$$

❖ Preprocessing time

$$\sum_i c_i \cdot n_i \cdot \log(n_i) = \boxed{\mathcal{O}(n \log n)}$$

❖ Query time (without reporting)

$$\sum_{i \text{ visited}} \log(n_i) = \boxed{\mathcal{O}(\log^2 n)}$$

