

Windowing Query

Segment Tree

- Elementary Interval

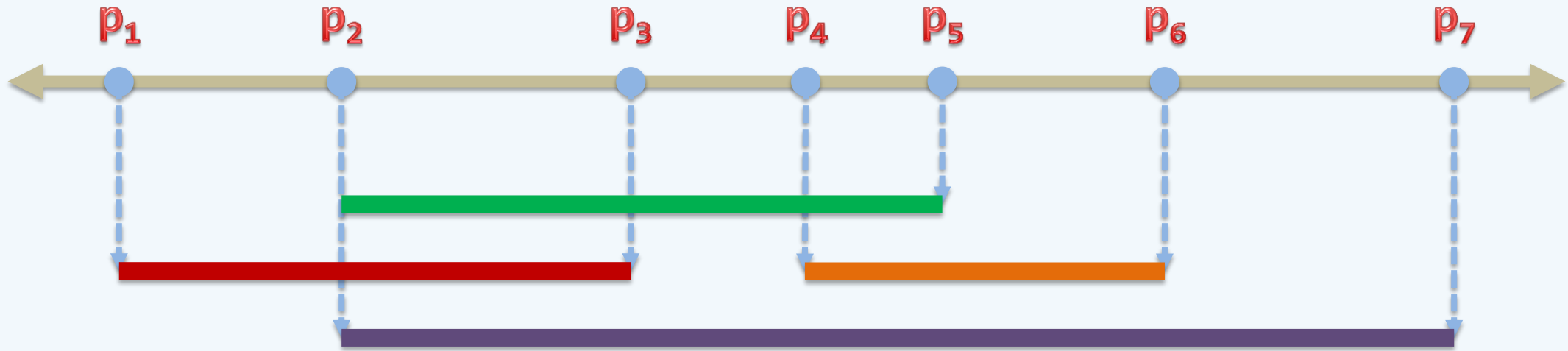
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Refinement

❖ Let $I := \{ [x_i : x_i'] \mid i = 1, 2, \dots, n \}$ be n intervals on the x -axis

Sort all the endpoints into $\{ p_1, \dots, p_m \}$, $m \leq 2n$



❖ $m + 1$ elementary intervals are hence defined:

$$(\infty, p_1], (p_1, p_2], (p_2, p_3], \dots, (p_{m-1}, p_m], (p_m, +\infty)$$