

**Point Location**

**Slab Method**

**- Storage Cost**

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❖ Each vertex contributes only  $\boxed{1}$  vertical line to the decomposition

Therefore there are  $\boxed{O(n)}$  slabs

❖ Each edge of the input subdivision intersects a slab at most  $\boxed{\text{once}}$

Therefore

- each slab is decomposed into

- $\boxed{O(n)}$  trapezoids and

- all slabs consist of  $\boxed{O(n^2)}$  trapezoids

