

Range Tree: Structure

- Worst Case

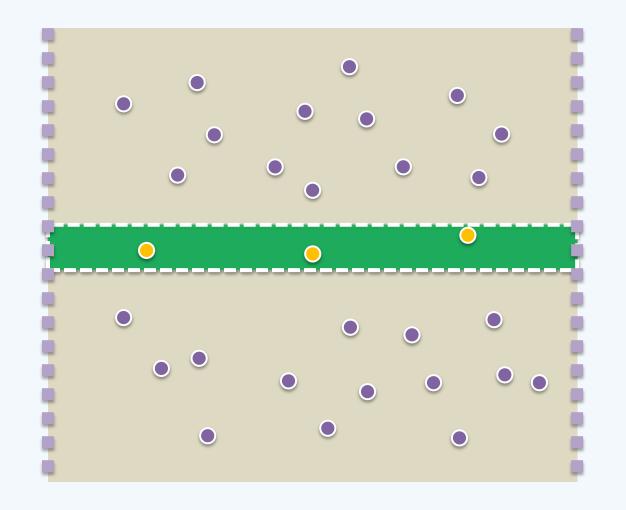
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 \star Using kd-trees, we need $\mathcal{O}(\mathbf{1}+\sqrt{n})$ time But here ...

The x-query returns
 (almost) all points whereas
the y-query rejects

(almost) all



 \bullet We spent $\Omega(n)$ time before getting r = 0 points