Advanced Balanced Search Tree

Multi-Level Search Tree
Worst Case

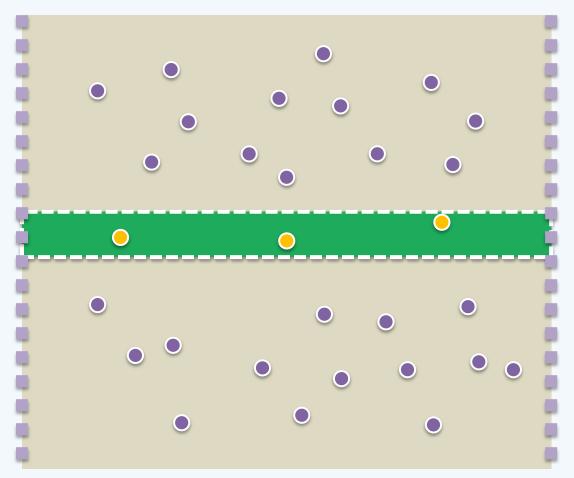
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```
❖ Using kd-trees,
    we need O(1 + \sqrt{n}) time
But here ...

❖ The x-query returns
```

(almost) all points whereas
the y-query rejects
 (almost) all



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