

Range Tree: Optimization

- Y-Lists

Junhui DENG

deng@tsinghua.edu.cn

BBST<BBST<T>>

search the corresponding y-tree

- It is this combination that leads to
 the squaring of the logarithms
- \odot If each y-tree can be searched in O(1) time, the second $\log n$ factor will be eliminated!

BBST<Vector<T>>

❖ For an easier visualization,

let's regard each y-tree, equivalently,

as a sorted array (called y-list)

❖ Actually, this is also

a more efficient way

to implement all y-trees

