

Advanced Balanced Search Tree

2d-Tree

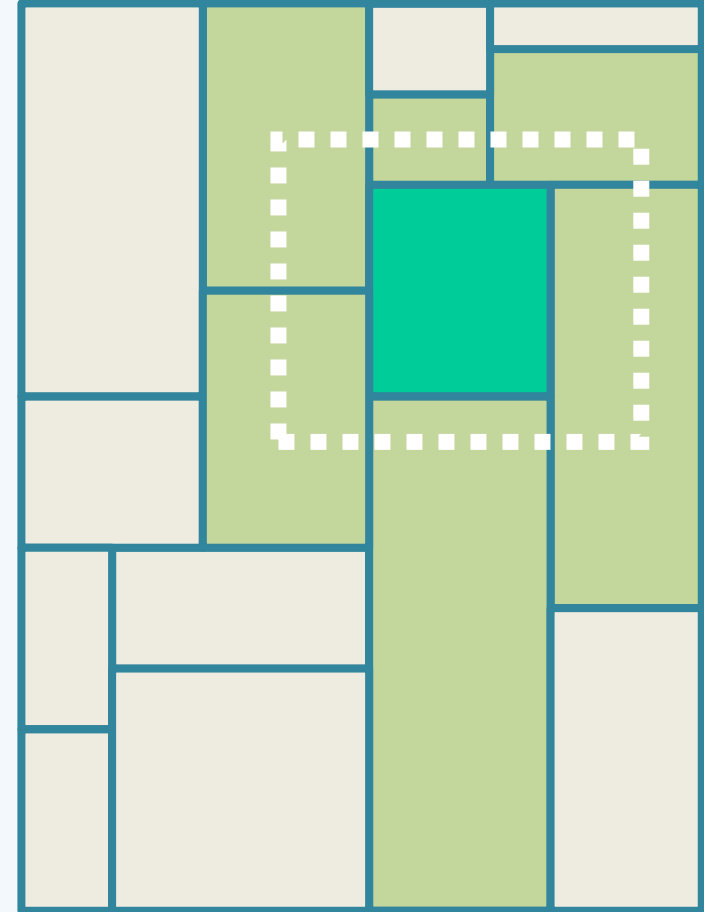
Query

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kdSearch(v , R)

```
❖ if ( isLeaf( v ) ) {  
    if ( inside( v, R ) )  
        report(v);  
    return;  
}
```



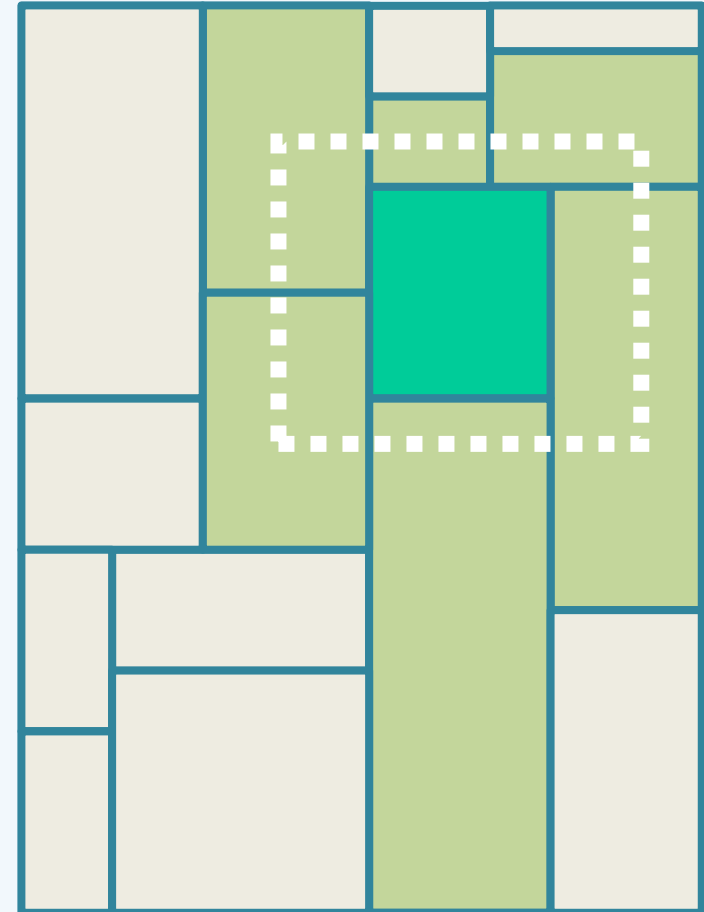
`kdSearch(v , R)`

❖ if (`region(v->lc) \subseteq R`)

`reportSubtree(v->lc);`

else if (`intersect(region(v->lc), R)`)

`kdSearch(v->lc, R);`



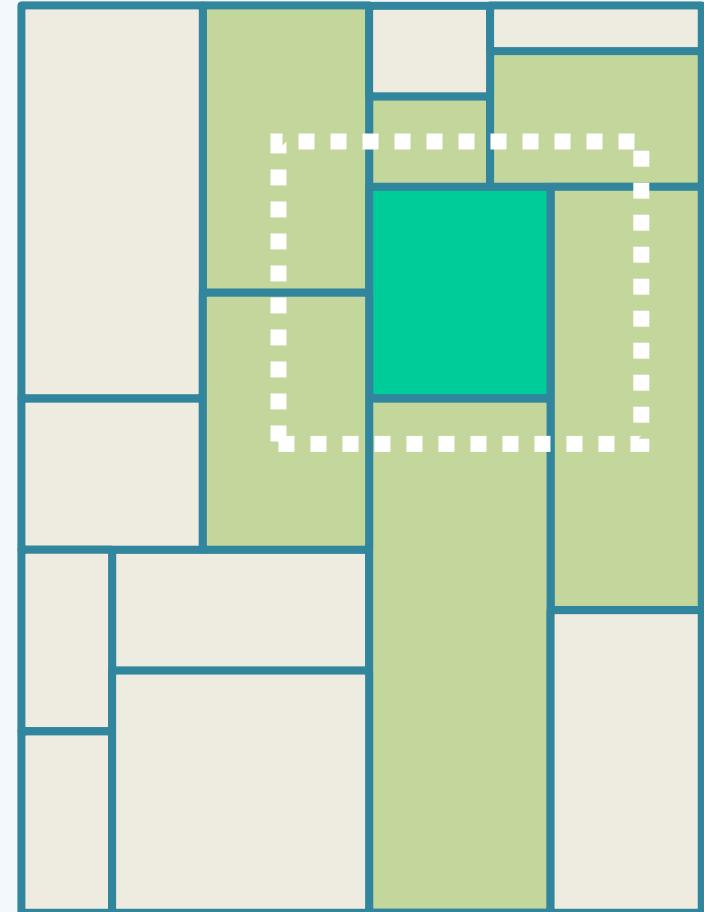
`kdSearch(v , R)`

❖ if (`region(v->rc) \subseteq R`)

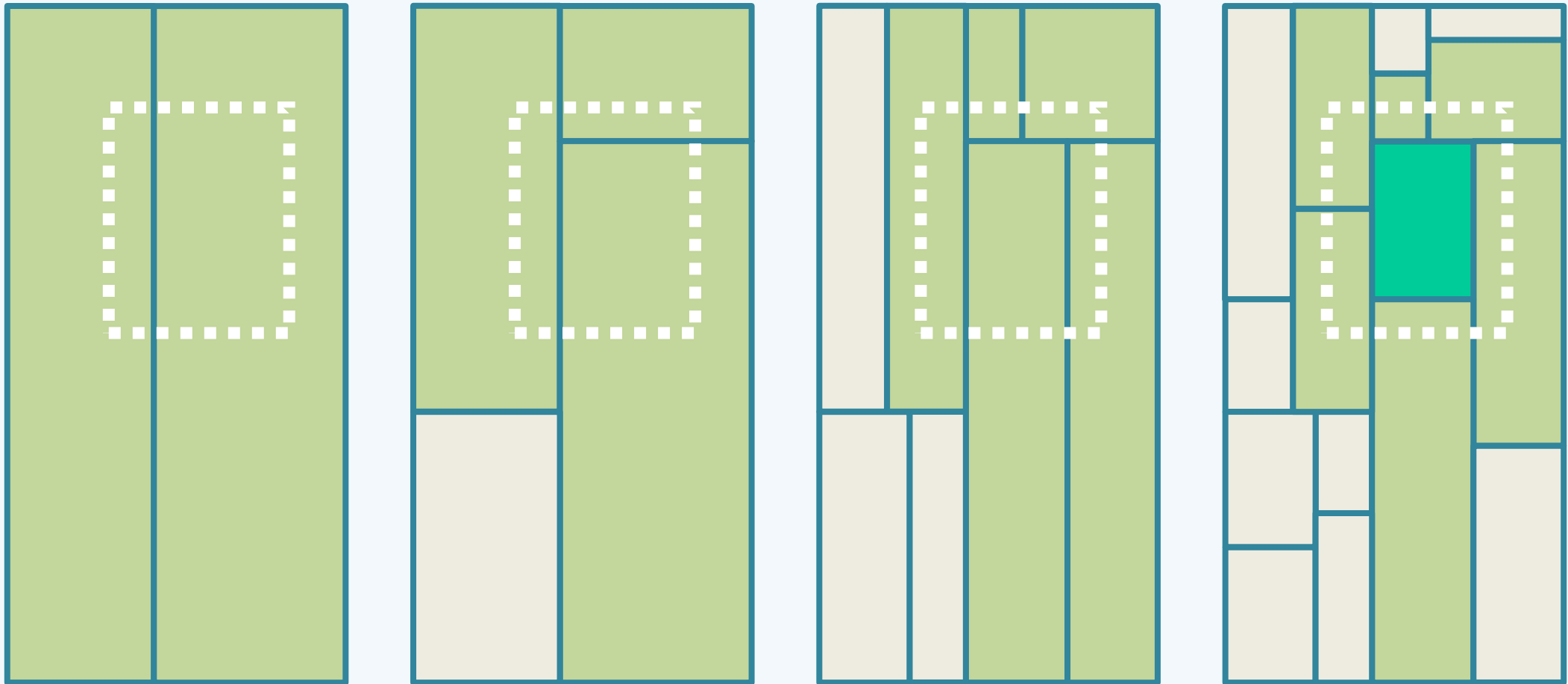
`reportSubtree(v->rc);`

else if (`intersect(region(v->rc), R)`)

`kdSearch(v->rc, R);`



Example



Example

