

kd-Tree: Algorithm

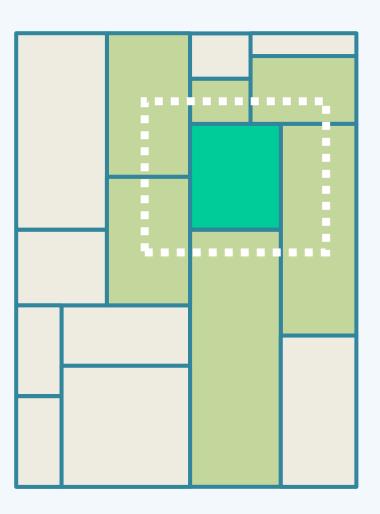
- Query

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```
kdSearch( v , R )
```

```
if ( inside( v, R ) )
     report(v);
   return;
```



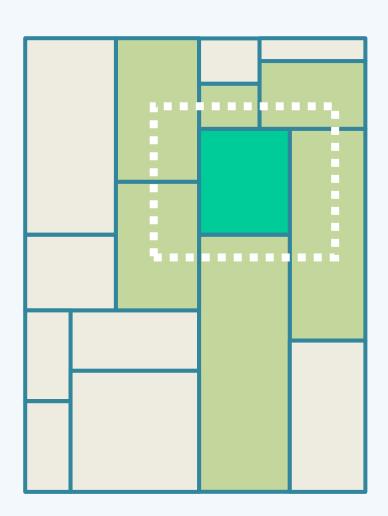
kdSearch(v , R)

```
    if ( region( v->lc ) ⊆ R )

    reportSubtree( v->lc );

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

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



kdSearch(v , R)

```
    * if ( region( v->rc ) ⊆ R )

    reportSubtree( v->rc );

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

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

