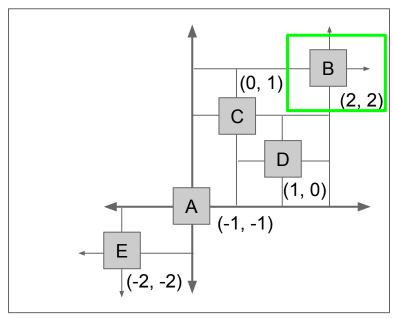
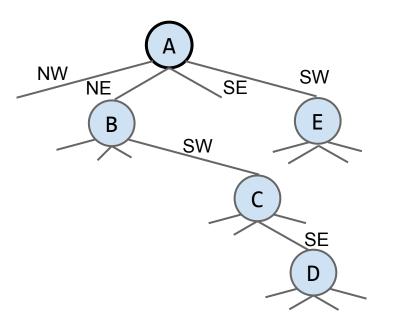


Goal: Find points in green rectangle.

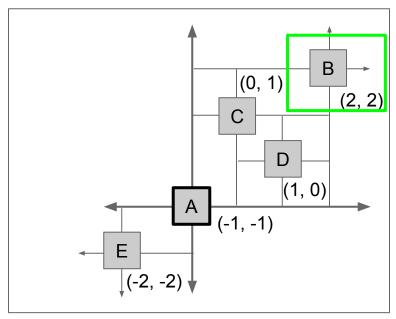


results = []

Start at root.



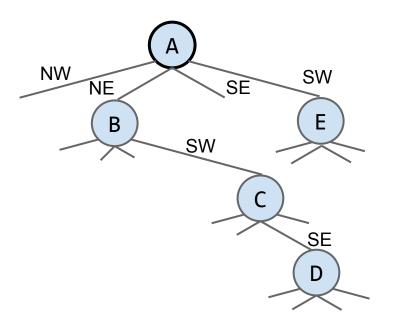
Goal: Find points in green rectangle.



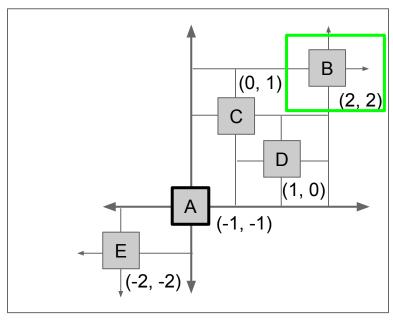
results = []

Start at root.

Is A in the box? No.



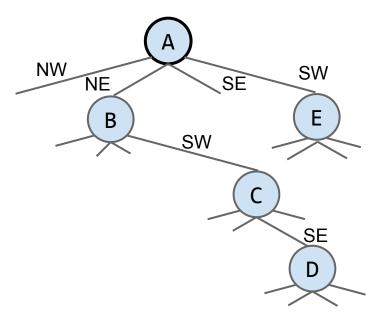
Goal: Find points in green rectangle.

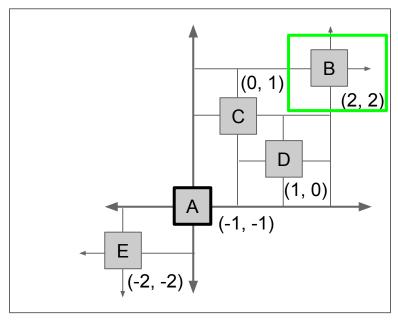


results = []

Start at root.

- Is A in the box? No.
- Which subspaces might have good points?

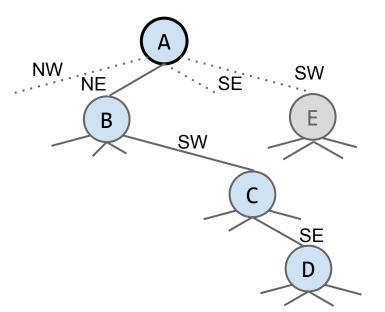




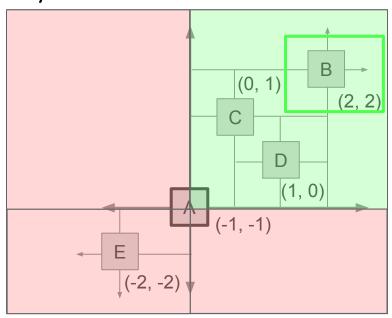
results = []

Start at root.

- Is A in the box? No.
- Which subspaces might have good points? Only NE. Prune the others.



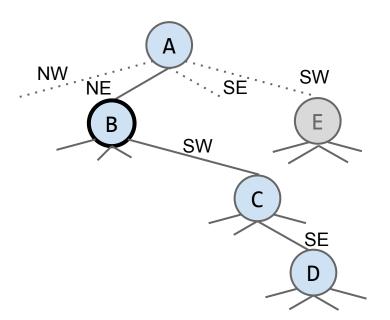
Goal: Find points in green rectangle.



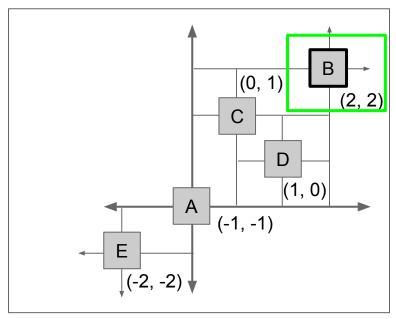
results = []

Examine B.

• Is B in the box?



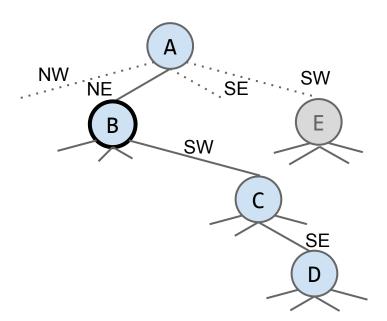
Goal: Find points in green rectangle.

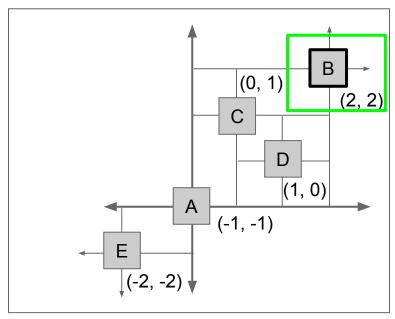


results = []

#### Examine B.

Is B in the box? Yes, so add to results.

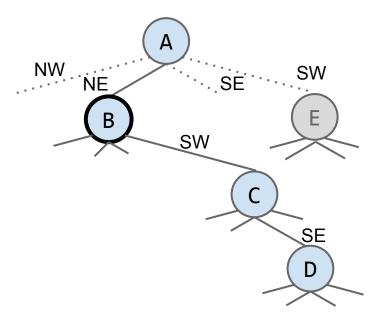


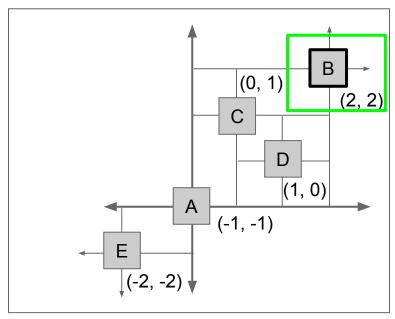


results = [B]

#### Examine B.

- Is B in the box? Yes, so add to results.
- Which subspaces might have good points?

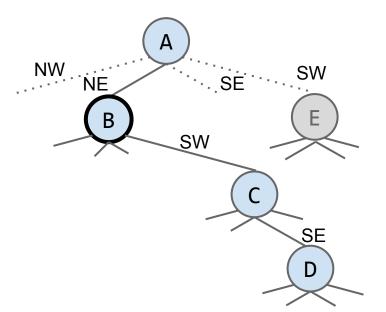


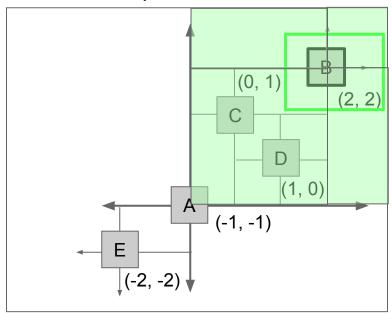


results = [B]

#### Examine B.

- Is B in the box? Yes, so add to results.
- Which subspaces might have good points? All four, so explore all four.

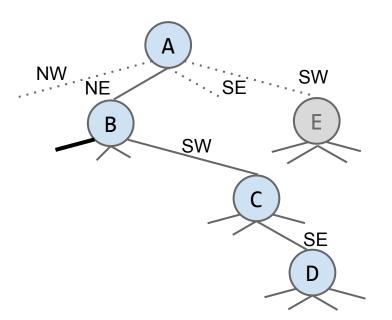


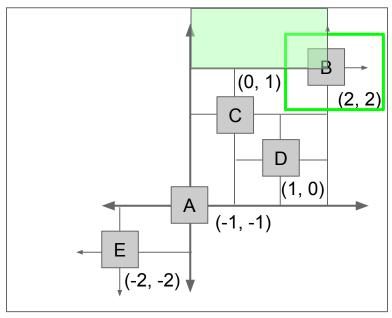


results = [B]

Examine B's NW link (null).

• Node is null, so return.

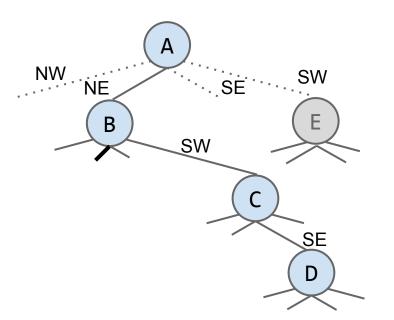


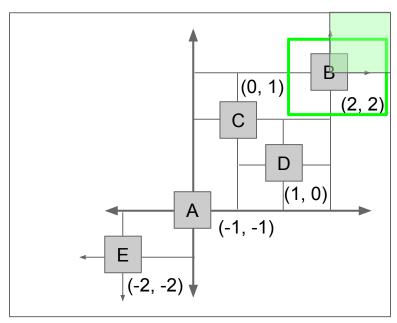


results = [B]

Examine B's NE link (null).

• Node is null, so return.

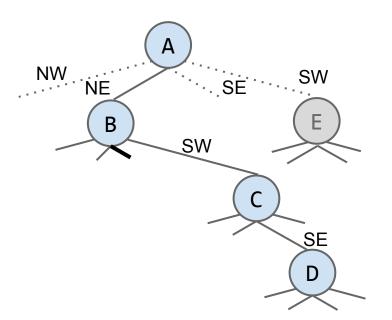


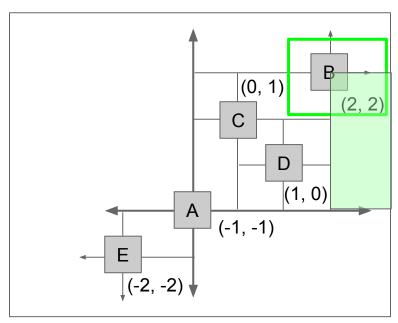


results = [B]

Examine B's SE link (null).

• Node is null, so return.

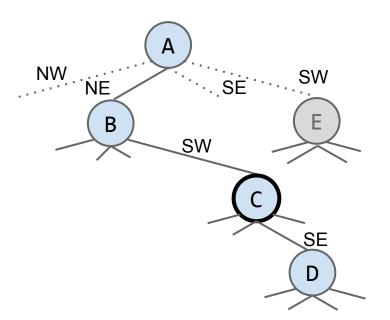


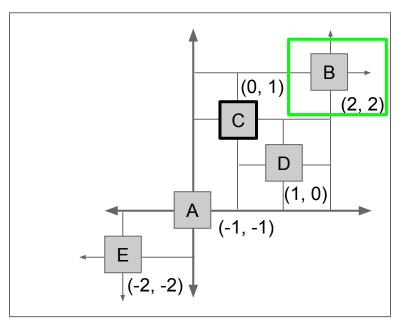


results = [B]

#### Examine C.

• Is C in the rectangle? No.

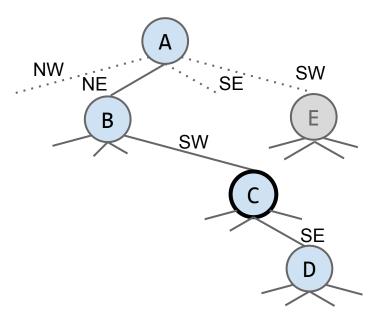


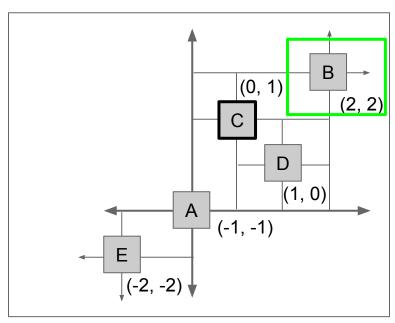


results = [B]

#### Examine C.

- Is C in the rectangle? No.
- Which subspaces might have good points?

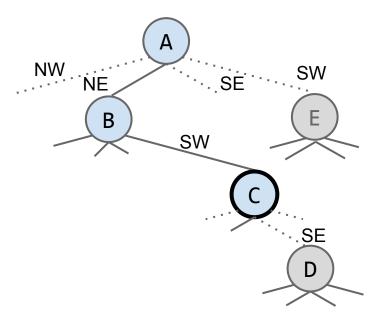


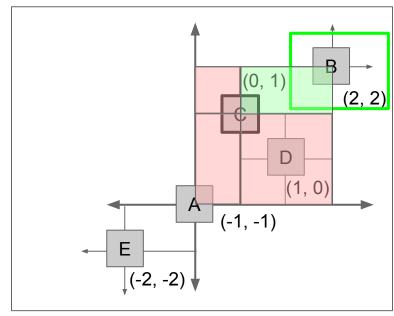


results = [B]

#### Examine C.

- Is C in the rectangle? No.
- Which subspaces might have good points? Only NE. Prune the others.

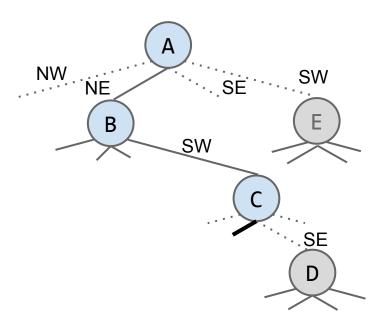


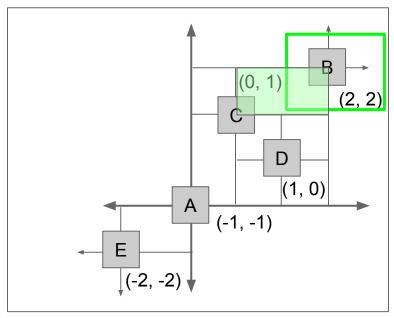


results = [B]

Examine C's NE link (null).

• Node is null, so return.





results = [B]