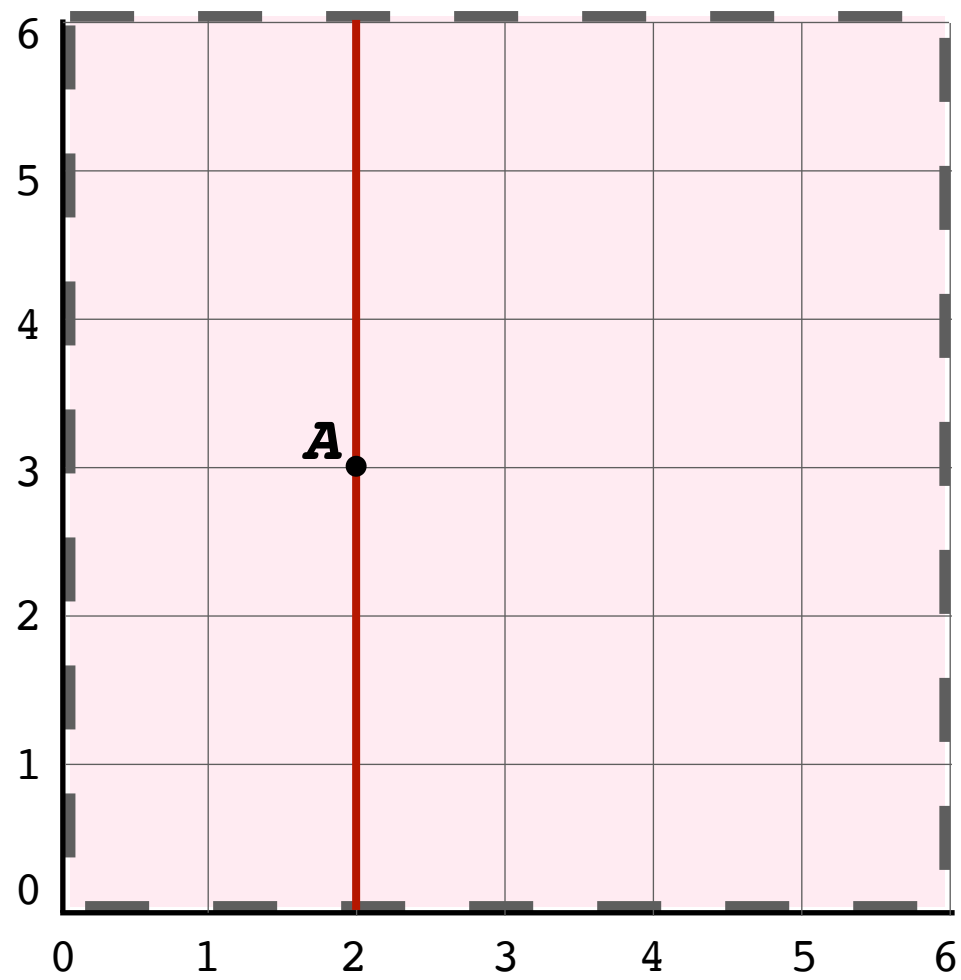


Bounding Boxes

$A(2, 3)$





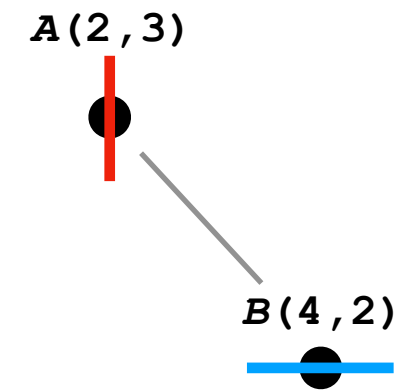
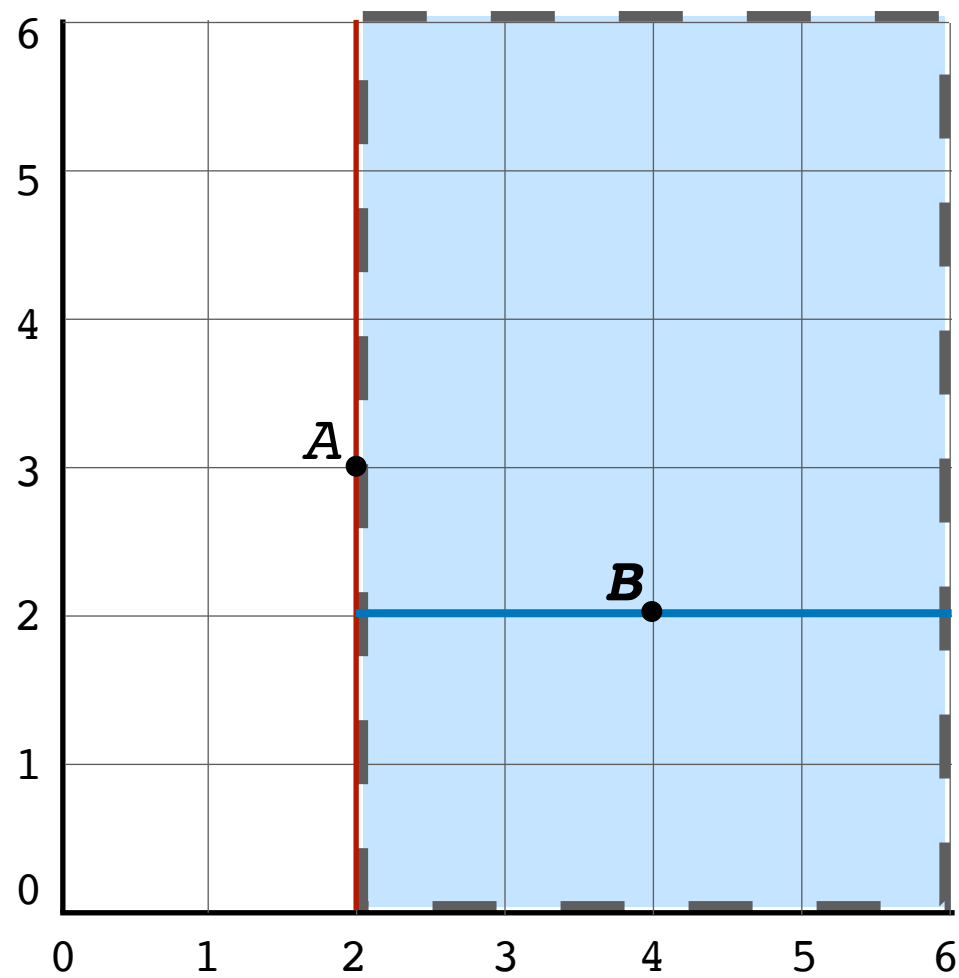
$A(2, 3)$



Bounding Boxes

$A(2, 3)$	$[(-\infty, -\infty), (+\infty, +\infty)]$
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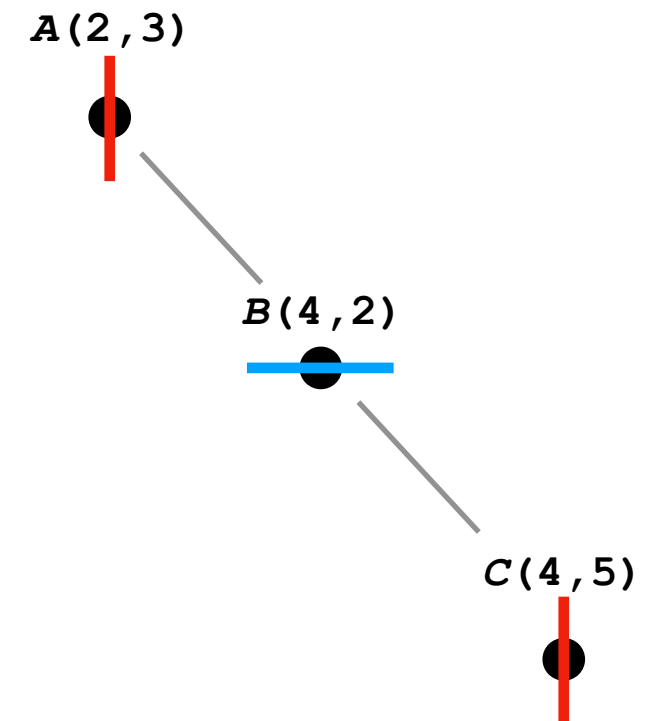
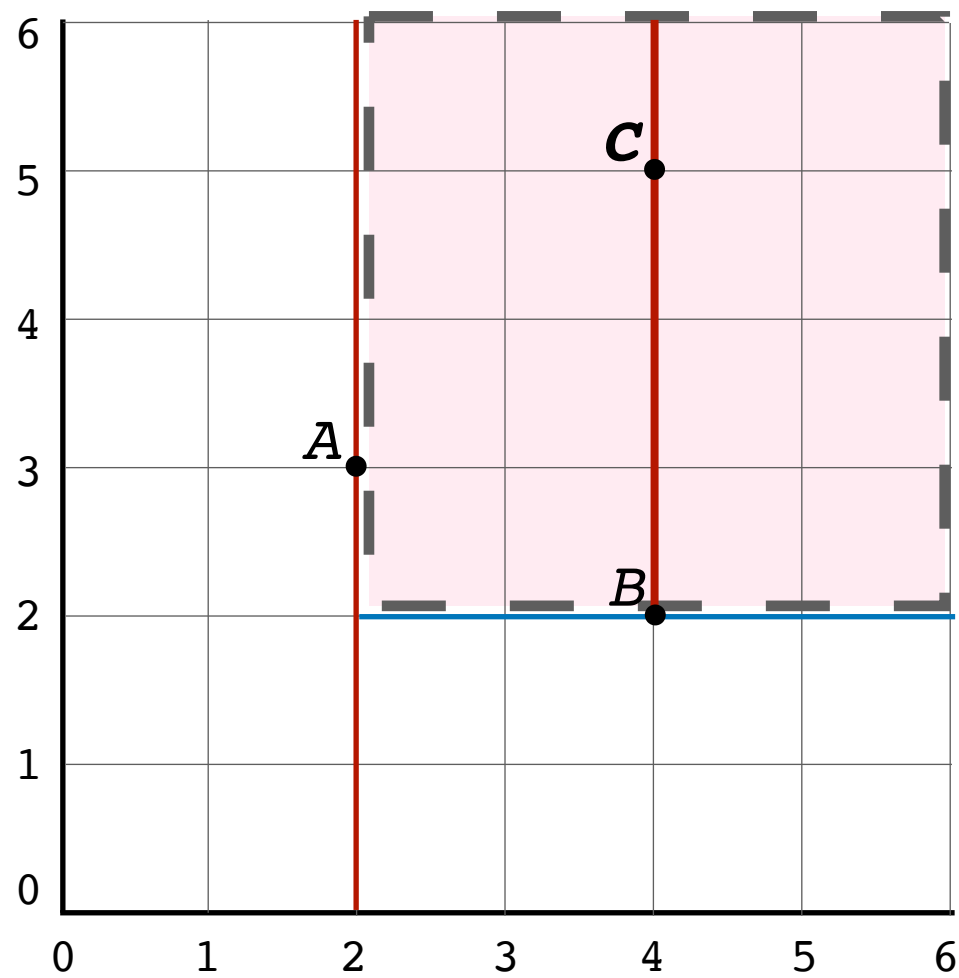
$[(x_{\min}, y_{\min}), (x_{\max}, y_{\max})]$



Bounding Boxes $[(x_{\min}, y_{\min}), (x_{\max}, y_{\max})]$

$A(2, 3)$	$[(-\infty, -\infty), (+\infty, +\infty)]$
$B(4, 2)$	$[(2, -\infty), (+\infty, +\infty)]$

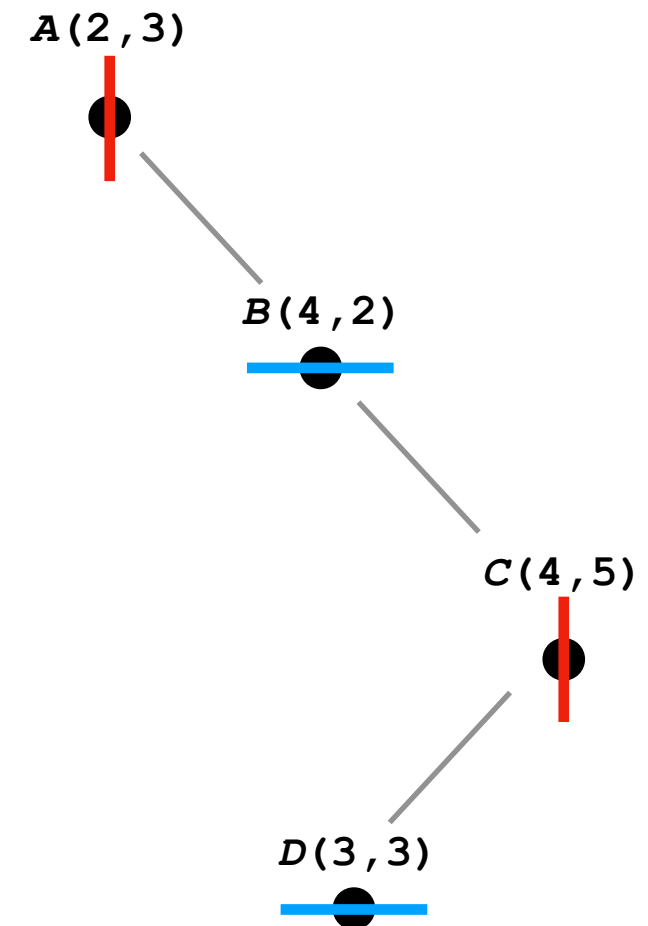
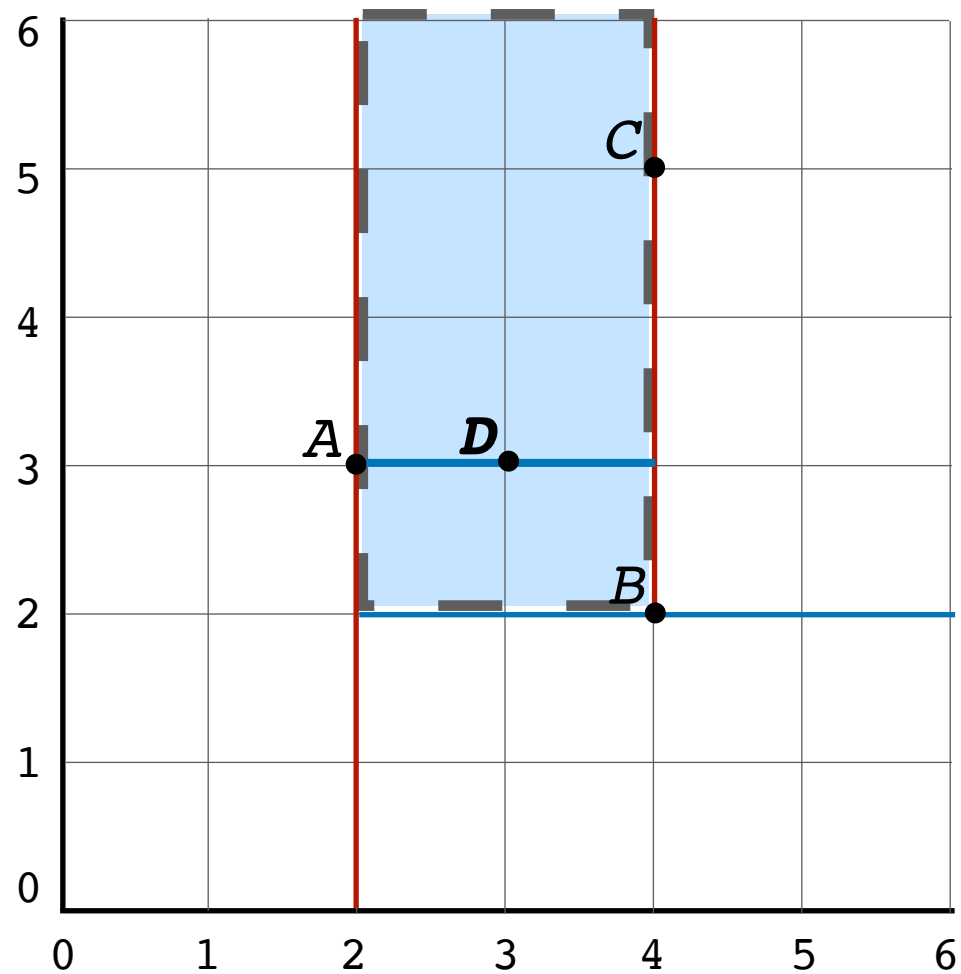
Only x min value changed from A to right child (B)



Bounding Boxes $[(xmin, ymin), (xmax, ymax)]$

$A(2, 3)$	$[(-\infty, -\infty), (+\infty, +\infty)]$
$B(4, 2)$	$[(2, -\infty), (+\infty, +\infty)]$
$C(4, 5)$	$[(2, 2), (+\infty, +\infty)]$

From B to right child, what changed? y min only

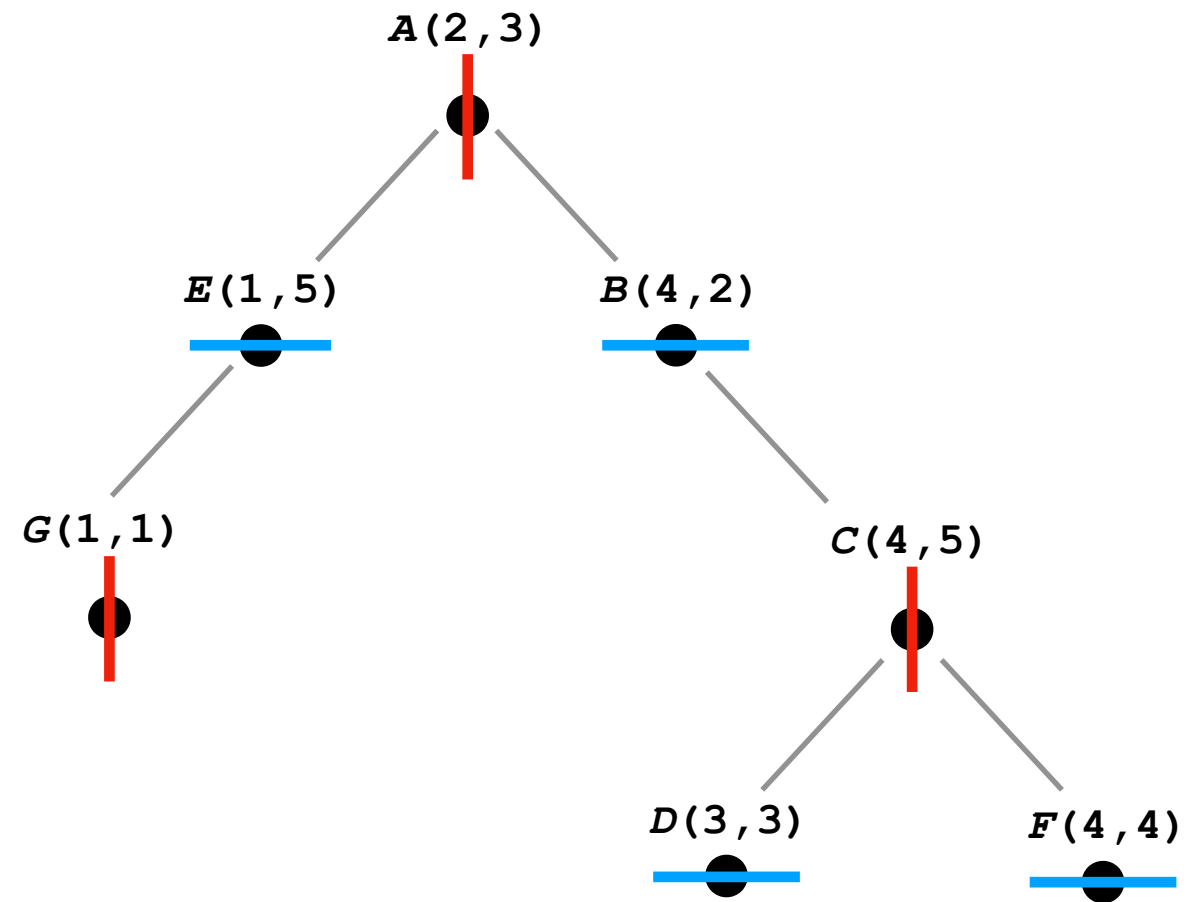
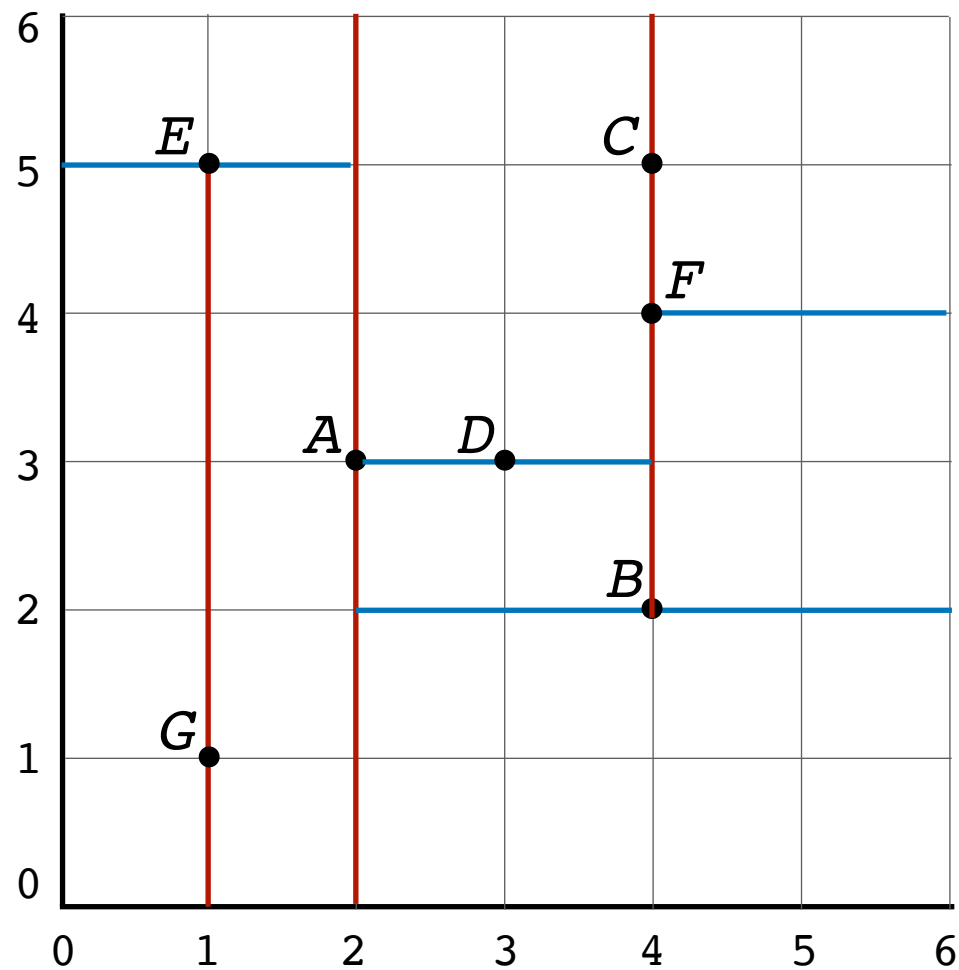


Bounding Boxes $[(x_{\min}, y_{\min}), (x_{\max}, y_{\max})]$

$A(2, 3)$	$[(-\infty, -\infty), (+\infty, +\infty)]$
$B(4, 2)$	$[(2, -\infty), (+\infty, +\infty)]$
$C(4, 5)$	$[(2, 2), (+\infty, +\infty)]$
$D(3, 3)$	$[(2, 2), (4, +\infty)]$

D's parent is? **C**

What changed from C to D? **x max**



Bounding Boxes $[(xmin, ymin), (xmax, ymax)]$

$A(2, 3)$	$[(-\infty, -\infty), (+\infty, +\infty)]$
$B(4, 2)$	$[(2, -\infty), (+\infty, +\infty)]$
$C(4, 5)$	$[(2, 2), (+\infty, +\infty)]$
$D(3, 3)$	$[(2, 2), (4, +\infty)]$
$F(4, 4)$	$[(4, 2), (+\infty, +\infty)]$
$E(1, 5)$	$[(-\infty, -\infty), (2, +\infty)]$
$G(1, 1)$	$[(-\infty, -\infty), (2, 5)]$

G's parent is E; y max changed