

Start

$$P(4 \leq X < 9)$$

$P(X < 8.5)$	$P(X \geq 4)$	$P(X > 3.5)$	$P(3.5 < X < 4.5)$	$P(X = 4)$	$P(3.5 < X < 8.5)$
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$P(X < 9)$
$P(4.5 < X < 9.5)$

$P(4 < X \leq 9)$	$P(X > 4.5)$	$P(X > 4)$	$P(X < 4.5)$	$P(X \leq 4)$	$P(4.5 < X < 8.5)$
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$$P(4 < X < 9)$$

$$P(3.5 < X < 9.5)$$

Finish	$P(8.5 < X < 9.5)$	$P(X = 9)$	$P(X < 4)$	$P(X < 3.5)$	$P(4 \leq X \leq 9)$
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