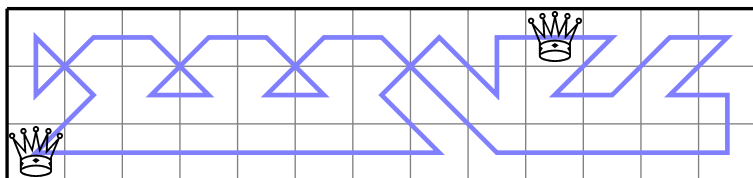
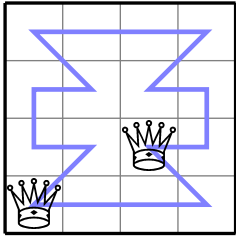


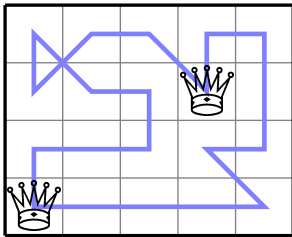
$$Q(13,3) \geq 2$$



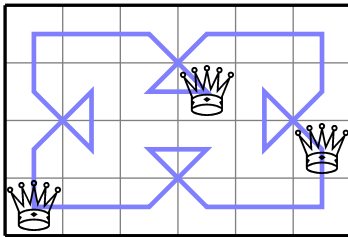
$$Q(4,4) = 2$$



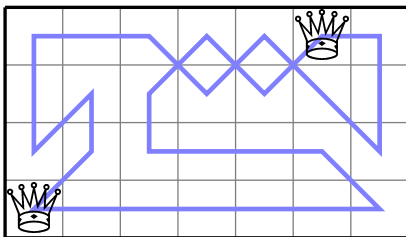
$$Q(5,4) = 2$$



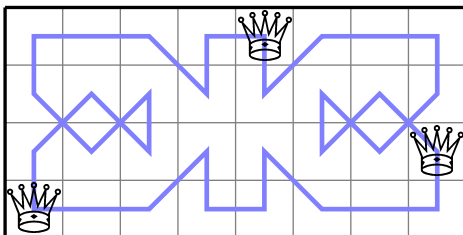
$$Q(6,4) = 3$$



$$Q(7,4) = 2$$



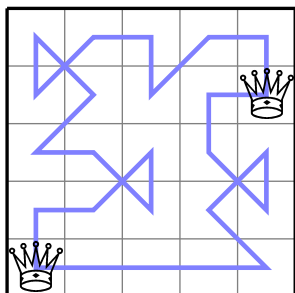
$$Q(8,4) = 3$$



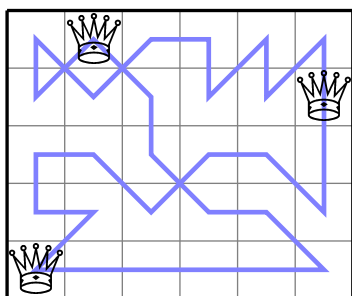
[illegible]

A 10x10 grid with a blue path. The path starts at the bottom-left corner (row 10, column 1), moves right to (10, 10), then up to (1, 10), then left to (1, 1), then down to (10, 1). The path then moves right to (10, 2), up to (10, 3), left to (10, 4), down to (10, 5), right to (10, 6), up to (10, 7), left to (10, 8), down to (10, 9), right to (10, 10), up to (1, 10), left to (1, 9), down to (1, 8), right to (1, 7), up to (1, 6), left to (1, 5), down to (1, 4), right to (1, 3), up to (1, 2), left to (1, 1), and finally down to (10, 1). Three crowns are placed on the grid: one at (10, 1), one at (1, 10), and one at (1, 1).

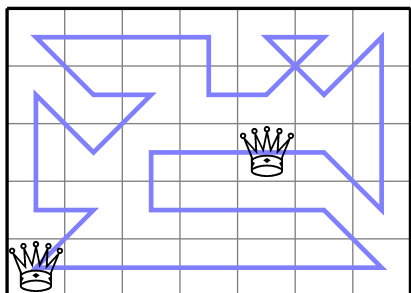
$$Q(5,5) = 2$$



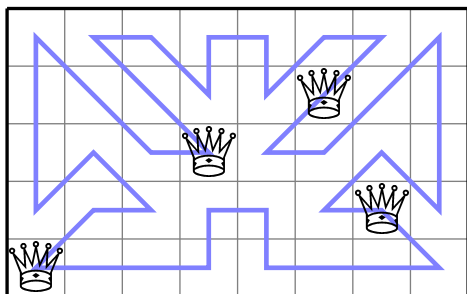
$$Q(6,5) = 3$$



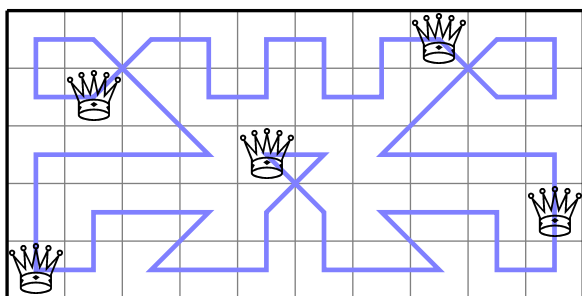
$$Q(7,5) \geq 2$$



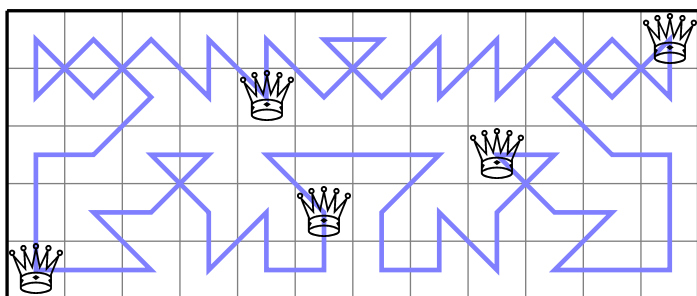
$$Q(8,5) \geq 4$$



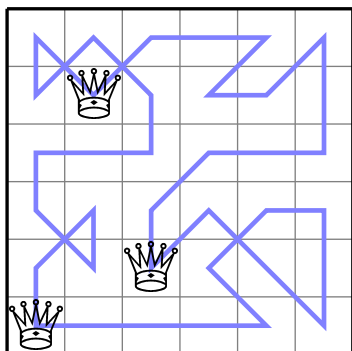
$$Q(10,5) = 5$$



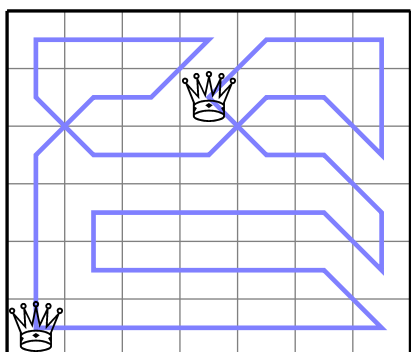
$$Q(12,5) = 5$$



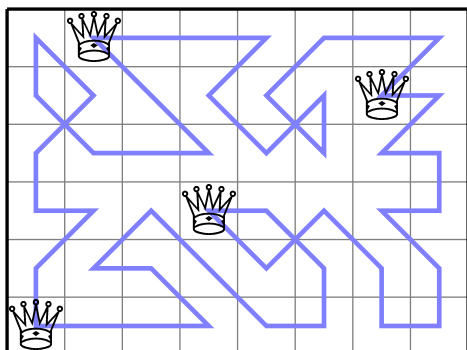
$$Q(6,6) \geq 3$$



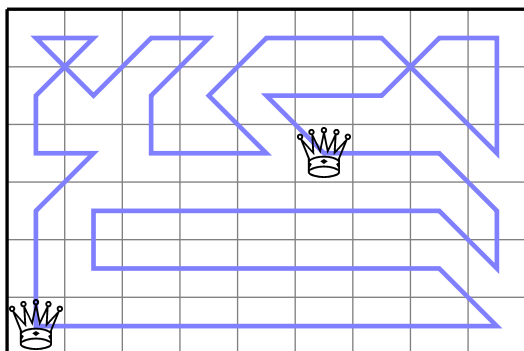
$$Q(7,6) \geq 2$$



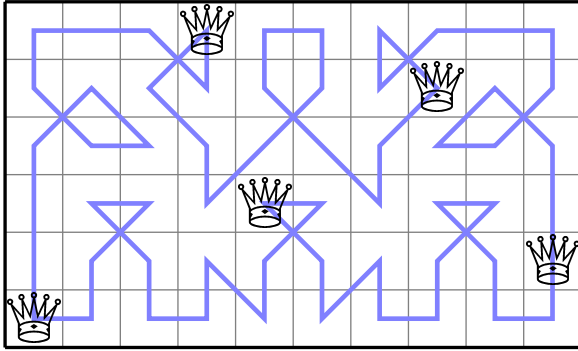
$$Q(8,6) \geq 4$$



$$Q(9,6) \geq 2$$



$$Q(10,6) \geq 5$$



$$Q(12,6) = 6$$

