Fundamental Solutions to the N + 3 Queens Problem for N = 8, 9, and 10

Doug Chatham

March 9, 2007

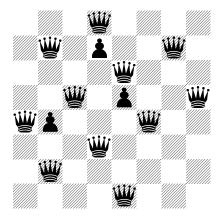
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Solution 1 P: [1, 3], [3, 4], [4, 1] Q: [0, 3], [1, 1], [1, 6], [2, 4], [3, 2], [3, 7], [4, 0], [4, 5], [5, 3], [6, 1], [7, 4]



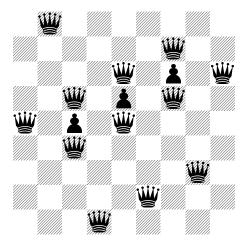
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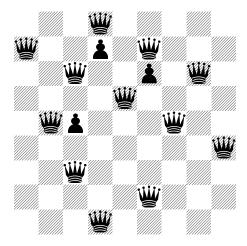
Solution 1 P: [2, 6], [3, 4], [4, 2] Q: [0, 1], [1, 6], [2, 4], [2, 8], [3, 2], [3, 6], [4, 0], [4, 4], [5, 2], [6, 7], [7, 5], [8, 3]



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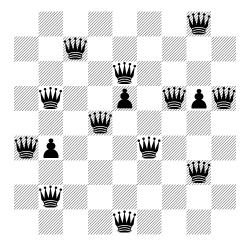
Solution 2 P: [1, 3], [2, 5], [4, 2] Q: [0, 3], [1, 0], [1, 5], [2, 2], [2, 7], [3, 4], [4, 1], [4, 6], [5, 8], [6, 2], [7, 5], [8, 3]



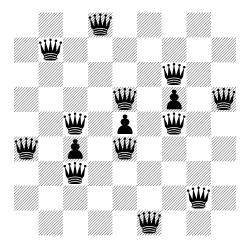
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Solution 3 P: [3, 4], [3, 7], [5, 1] Q: [0, 7], [1, 2], [2, 4], [3, 1], [3, 6], [3, 8], [4, 3], [5, 0], [5, 5], [6, 7], [7, 1], [8, 4]



Solution 4 P: [3, 6], [4, 4], [5, 2] Q: [0, 3], [1, 1], [2, 6], [3, 4], [3, 8], [4, 2], [4, 6], [5, 0], [5, 4], [6, 2], [7, 7], [8, 5]

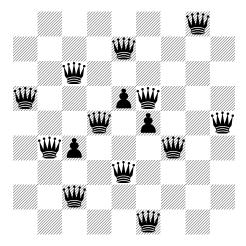


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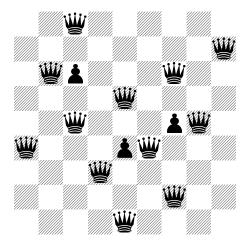
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Solution 5 P: [3, 4], [4, 5], [5, 2] Q: [0, 7], [1, 4], [2, 2], [3, 0], [3, 5], [4, 3], [4, 8], [5, 1], [5, 6], [6, 4], [7, 2], [8, 5]



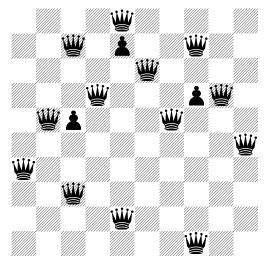
Solution 6 P: [2, 2], [4, 6], [5, 4] Q: [0, 2], [1, 8], [2, 1], [2, 6], [3, 4], [4, 2], [4, 7], [5, 0], [5, 5], [6, 3], [7, 6], [8, 4]



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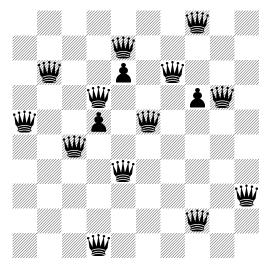
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Solution 1 P: [1, 4], [3, 7], [4, 2] Q: [0, 4], [1, 2], [1, 7], [2, 5], [3, 3], [3, 8], [4, 1], [4, 6], [5, 9], [6, 0], [7, 2], [8, 4], [9, 7]

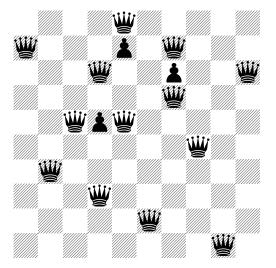


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Solution 2 P: [2, 4], [3, 7], [4, 3] Q: [0, 7], [1, 4], [2, 1], [2, 6], [3, 3], [3, 8], [4, 0], [4, 5], [5, 2], [6, 4], [7, 9], [8, 7], [9, 3]



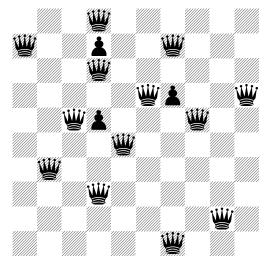
Solution 3 P: [1, 4], [2, 6], [4, 3] Q: [0, 4], [1, 0], [1, 6], [2, 3], [2, 9], [3, 6], [4, 2], [4, 4], [5, 7], [6, 1], [7, 3], [8, 5], [9, 8]



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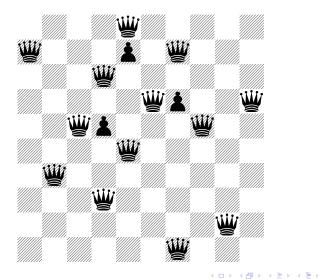
Solution 4 P: [1, 3], [3, 6], [4, 3] Q: [0, 3], [1, 0], [1, 6], [2, 3], [3, 5], [3, 9], [4, 2], [4, 7], [5, 4], [6, 1], [7, 3], [8, 8], [9, 6]



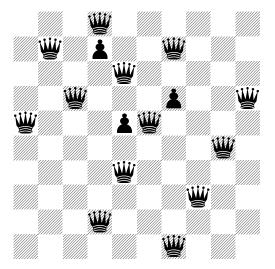
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Solution 5 P: [1, 4], [3, 6], [4, 3] Q: [0, 4], [1, 0], [1, 6], [2, 3], [3, 5], [3, 9], [4, 2], [4, 7], [5, 4], [6, 1], [7, 3], [8, 8], [9, 6]



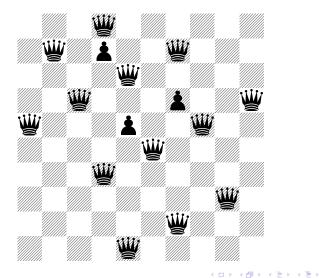
Solution 6 P: [1, 3], [3, 6], [4, 4] Q: [0, 3], [1, 1], [1, 6], [2, 4], [3, 2], [3, 9], [4, 0], [4, 5], [5, 8], [6, 4], [7, 7], [8, 3], [9, 6]



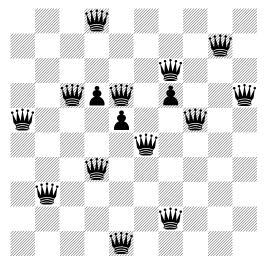
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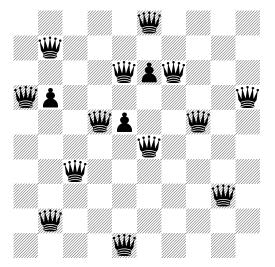
Solution 7 P: [1, 3], [3, 6], [4, 4] Q: [0, 3], [1, 1], [1, 6], [2, 4], [3, 2], [3, 9], [4, 0], [4, 7], [5, 5], [6, 3], [7, 8], [8, 6], [9, 4]



Solution 8 P: [3, 3], [3, 6], [4, 4] Q: [0, 3], [1, 8], [2, 6], [3, 2], [3, 4], [3, 9], [4, 0], [4, 7], [5, 5], [6, 3], [7, 1], [8, 6], [9, 4]

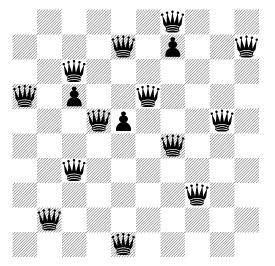


Solution 9 P: [2, 5], [3, 1], [4, 4] Q: [0, 5], [1, 1], [2, 4], [2, 6], [3, 0], [3, 9], [4, 3], [4, 7], [5, 5], [6, 2], [7, 8], [8, 1], [9, 4]



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$Solution 10 \\ P: [1, 6], [3, 2], [4, 4] \\ Q: [0, 6], [1, 4], [1, 9], [2, 2], [3, 0], [3, 5], [4, 3], [4, 8], [5, 6], [6, 2], [7, 7], [8, 1], [9, 4]$

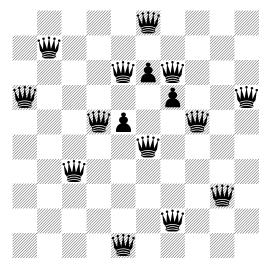


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Solution 11 P: [2, 5], [3, 6], [4, 4] Q: [0, 5], [1, 1], [2, 4], [2, 6], [3, 0], [3, 9], [4, 3], [4, 7], [5, 5], [6, 2], [7, 8], [8, 6], [9, 4]

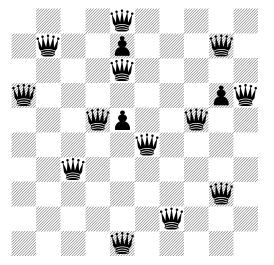


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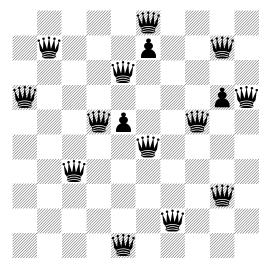
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Solution 12 P: [1, 4], [3, 8], [4, 4] Q: [0, 4], [1, 1], [1, 8], [2, 4], [3, 0], [3, 9], [4, 3], [4, 7], [5, 5], [6, 2], [7, 8], [8, 6], [9, 4]



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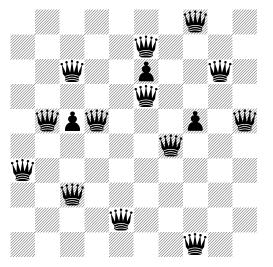
Solution 13 P: [1, 5], [3, 8], [4, 4] Q: [0, 5], [1, 1], [1, 8], [2, 4], [3, 0], [3, 9], [4, 3], [4, 7], [5, 5], [6, 2], [7, 8], [8, 6], [9, 4]



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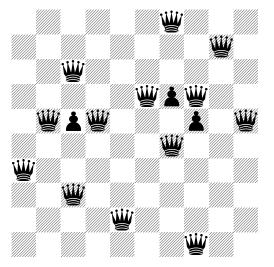
Board of Order 10

Solution 14 P: [2, 5], [4, 2], [4, 7] Q: [0, 7], [1, 5], [2, 2], [2, 8], [3, 5], [4, 1], [4, 3], [4, 9], [5, 6], [6, 0], [7, 2], [8, 4], [9, 7]

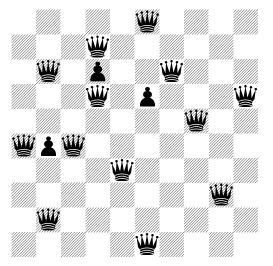


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Solution 15 P: [3, 6], [4, 2], [4, 7] Q: [0, 6], [1, 8], [2, 2], [3, 5], [3, 7], [4, 1], [4, 3], [4, 9], [5, 6], [6, 0], [7, 2], [8, 4], [9, 7]



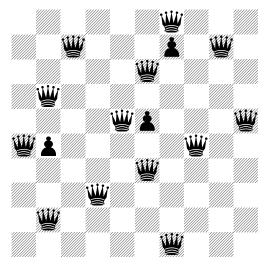
Solution 16 P: [2, 3], [3, 5], [5, 1] Q: [0, 5], [1, 3], [2, 1], [2, 6], [3, 3], [3, 9], [4, 7], [5, 0], [5, 2], [6, 4], [7, 8], [8, 1], [9, 5]



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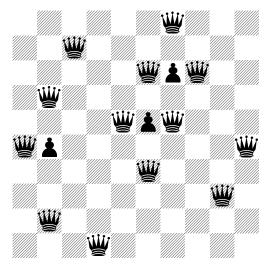
Board of Order 10

Solution 17 P: [1, 6], [4, 5], [5, 1] Q: [0, 6], [1, 2], [1, 8], [2, 5], [3, 1], [4, 4], [4, 9], [5, 0], [5, 7], [6, 5], [7, 3], [8, 1], [9, 6]



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$\begin{array}{l} Solution \ 18 \\ P: [2, \ 6], \ [4, \ 5], \ [5, \ 1] \\ Q: \ [0, \ 6], \ [1, \ 2], \ [2, \ 5], \ [2, \ 7], \ [3, \ 1], \ [4, \ 4], \ [4, \ 6], \ [5, \ 0], \ [5, \ 9], \ [6, \ 5], \ [7, \ 8], \ [8, \ 1], \ [9, \ 3] \end{array}$

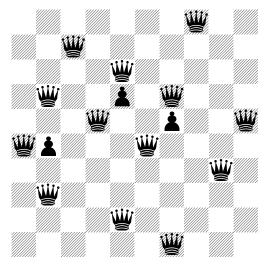


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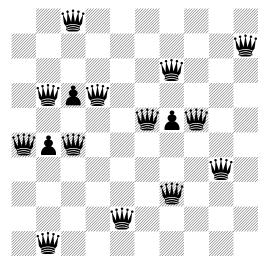
$\begin{array}{l} Solution \ 19 \\ P: [3, \, 4], \ [4, \, 6], \ [5, \, 1] \\ Q: \ [0, \, 7], \ [1, \, 2], \ [2, \, 4], \ [3, \, 1], \ [3, \, 6], \ [4, \, 3], \ [4, \, 9], \ [5, \, 0], \ [5, \, 5], \ [6, \, 8], \ [7, \, 1], \ [8, \, 4], \ [9, \, 6] \end{array}$



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Solution 20 P: [3, 2], [4, 6], [5, 1] Q: [0, 2], [1, 9], [2, 6], [3, 1], [3, 3], [4, 5], [4, 7], [5, 0], [5, 2], [6, 8], [7, 6], [8, 4], [9, 1]

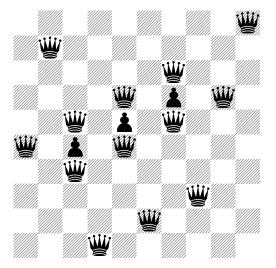


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Solution 21 P: [3, 6], [4, 4], [5, 2] Q: [0, 9], [1, 1], [2, 6], [3, 4], [3, 8], [4, 2], [4, 6], [5, 0], [5, 4], [6, 2], [7, 7], [8, 5], [9, 3]

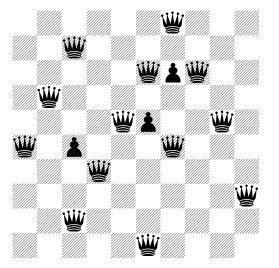


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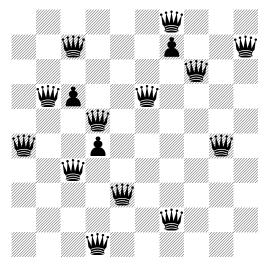
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Solution 22 P: [2, 6], [4, 5], [5, 2] Q: [0, 6], [1, 2], [2, 5], [2, 7], [3, 1], [4, 4], [4, 8], [5, 0], [5, 6], [6, 3], [7, 9], [8, 2], [9, 5]



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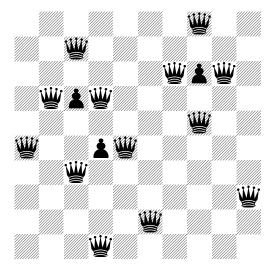
Solution 23 P: [1, 6], [3, 2], [5, 3] Q: [0, 6], [1, 2], [1, 9], [2, 7], [3, 1], [3, 5], [4, 3], [5, 0], [5, 8], [6, 2], [7, 4], [8, 6], [9, 3]



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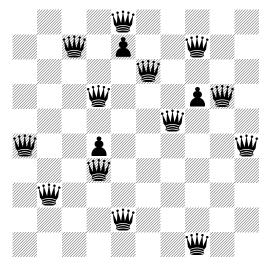
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Solution 24 P: [2, 7], [3, 2], [5, 3] Q: [0, 7], [1, 2], [2, 6], [2, 8], [3, 1], [3, 3], [4, 7], [5, 0], [5, 4], [6, 2], [7, 9], [8, 5], [9, 3]

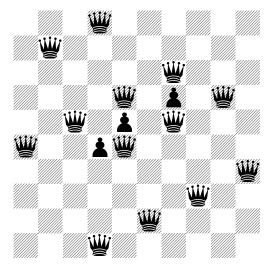


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Solution 25 P: [1, 4], [3, 7], [5, 3] Q: [0, 4], [1, 2], [1, 7], [2, 5], [3, 3], [3, 8], [4, 6], [5, 0], [5, 9], [6, 3], [7, 1], [8, 4], [9, 7]



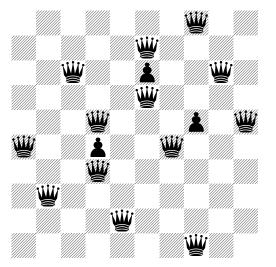
Solution 26 P: [3, 6], [4, 4], [5, 3] Q: [0, 3], [1, 1], [2, 6], [3, 4], [3, 8], [4, 2], [4, 6], [5, 0], [5, 4], [6, 9], [7, 7], [8, 5], [9, 3]



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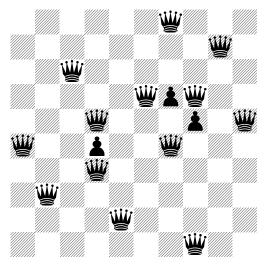
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Solution 27 P: [2, 5], [4, 7], [5, 3] Q: [0, 7], [1, 5], [2, 2], [2, 8], [3, 5], [4, 3], [4, 9], [5, 0], [5, 6], [6, 3], [7, 1], [8, 4], [9, 7]



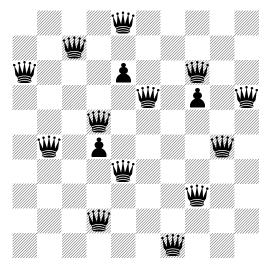
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Solution 28 P: [3, 6], [4, 7], [5, 3] Q: [0, 6], [1, 8], [2, 2], [3, 5], [3, 7], [4, 3], [4, 9], [5, 0], [5, 6], [6, 3], [7, 1], [8, 4], [9, 7]

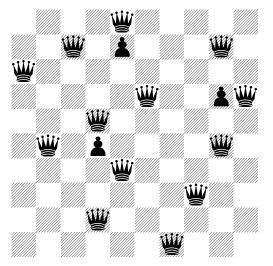




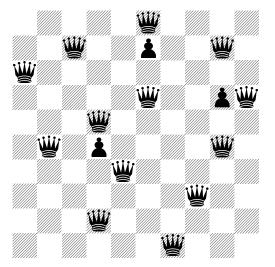
Solution 29 P: [2, 4], [3, 7], [5, 3] Q: [0, 4], [1, 2], [2, 0], [2, 7], [3, 5], [3, 9], [4, 3], [5, 1], [5, 8], [6, 4], [7, 7], [8, 3], [9, 6]



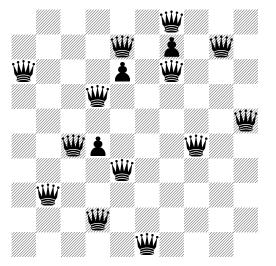
Solution 30 P: [1, 4], [3, 8], [5, 3] Q: [0, 4], [1, 2], [1, 8], [2, 0], [3, 5], [3, 9], [4, 3], [5, 1], [5, 8], [6, 4], [7, 7], [8, 3], [9, 6]



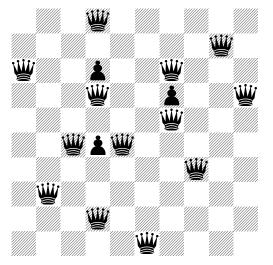
Solution 31 P: [1, 5], [3, 8], [5, 3] Q: [0, 5], [1, 2], [1, 8], [2, 0], [3, 5], [3, 9], [4, 3], [5, 1], [5, 8], [6, 4], [7, 7], [8, 3], [9, 6]



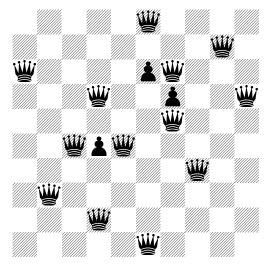
Solution 32 P: [1, 6], [2, 4], [5, 3] Q: [0, 6], [1, 4], [1, 8], [2, 0], [2, 6], [3, 3], [4, 9], [5, 2], [5, 7], [6, 4], [7, 1], [8, 3], [9, 5]



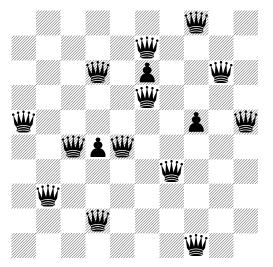
Solution 33 P: [2, 3], [3, 6], [5, 3] Q: [0, 3], [1, 8], [2, 0], [2, 6], [3, 3], [3, 9], [4, 6], [5, 2], [5, 4], [6, 7], [7, 1], [8, 3], [9, 5]



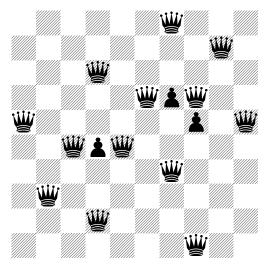
Solution 34 P: [2, 5], [3, 6], [5, 3] Q: [0, 5], [1, 8], [2, 0], [2, 6], [3, 3], [3, 9], [4, 6], [5, 2], [5, 4], [6, 7], [7, 1], [8, 3], [9, 5]



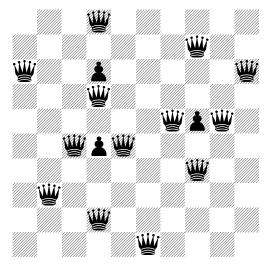
Solution 35 P: [2, 5], [4, 7], [5, 3] Q: [0, 7], [1, 5], [2, 3], [2, 8], [3, 5], [4, 0], [4, 9], [5, 2], [5, 4], [6, 6], [7, 1], [8, 3], [9, 7]



Solution 36 P: [3, 6], [4, 7], [5, 3] Q: [0, 6], [1, 8], [2, 3], [3, 5], [3, 7], [4, 0], [4, 9], [5, 2], [5, 4], [6, 6], [7, 1], [8, 3], [9, 7]

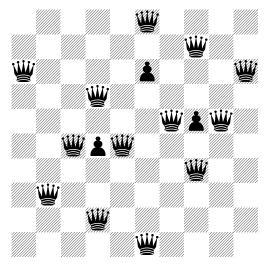


Solution 37 P: [2, 3], [4, 7], [5, 3] Q: [0, 3], [1, 7], [2, 0], [2, 9], [3, 3], [4, 6], [4, 8], [5, 2], [5, 4], [6, 7], [7, 1], [8, 3], [9, 5]

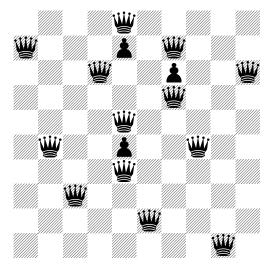


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Solution 38 P: [2, 5], [4, 7], [5, 3] Q: [0, 5], [1, 7], [2, 0], [2, 9], [3, 3], [4, 6], [4, 8], [5, 2], [5, 4], [6, 7], [7, 1], [8, 3], [9, 5]



Solution 39 P: [1, 4], [2, 6], [5, 4] Q: [0, 4], [1, 0], [1, 6], [2, 3], [2, 9], [3, 6], [4, 4], [5, 1], [5, 7], [6, 4], [7, 2], [8, 5], [9, 8]

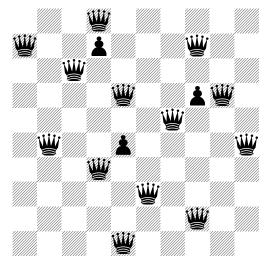


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Solution 40 P: [1, 3], [3, 7], [5, 4] Q: [0, 3], [1, 0], [1, 7], [2, 2], [3, 4], [3, 8], [4, 6], [5, 1], [5, 9], [6, 3], [7, 5], [8, 7], [9, 4]

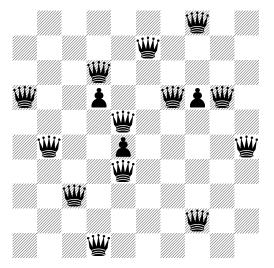


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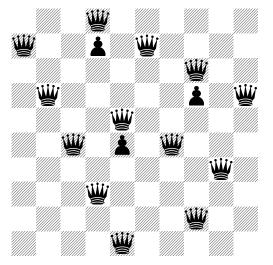
Solution 41 P: [3, 3], [3, 7], [5, 4] Q: [0, 7], [1, 5], [2, 3], [3, 0], [3, 6], [3, 8], [4, 4], [5, 1], [5, 9], [6, 4], [7, 2], [8, 7], [9, 3]



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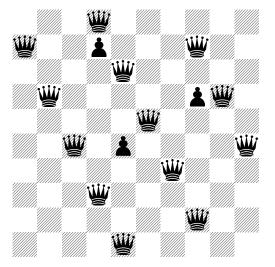
Solution 42 P: [1, 3], [3, 7], [5, 4] Q: [0, 3], [1, 0], [1, 5], [2, 7], [3, 1], [3, 9], [4, 4], [5, 2], [5, 6], [6, 8], [7, 3], [8, 7], [9, 4]



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Solution 43 P: [1, 3], [3, 7], [5, 4] Q: [0, 3], [1, 0], [1, 7], [2, 4], [3, 1], [3, 8], [4, 5], [5, 2], [5, 9], [6, 6], [7, 3], [8, 7], [9, 4]

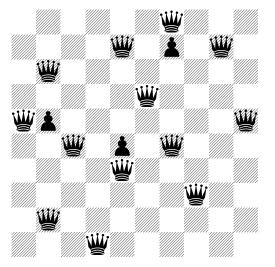


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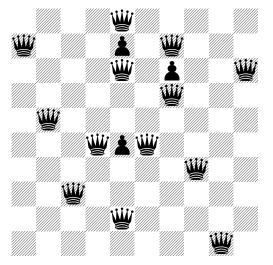
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Solution 44 P: [1, 6], [4, 1], [5, 4] Q: [0, 6], [1, 4], [1, 8], [2, 1], [3, 5], [4, 0], [4, 9], [5, 2], [5, 6], [6, 4], [7, 7], [8, 1], [9, 3]

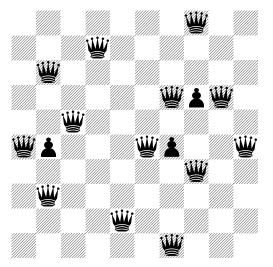


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Solution 45 P: [1, 4], [2, 6], [5, 4] Q: [0, 4], [1, 0], [1, 6], [2, 4], [2, 9], [3, 6], [4, 1], [5, 3], [5, 5], [6, 7], [7, 2], [8, 4], [9, 8]



Solution 46 P: [3, 7], [5, 1], [5, 6] Q: [0, 7], [1, 3], [2, 1], [3, 6], [3, 8], [4, 2], [5, 0], [5, 5], [5, 9], [6, 7], [7, 1], [8, 4], [9, 6]

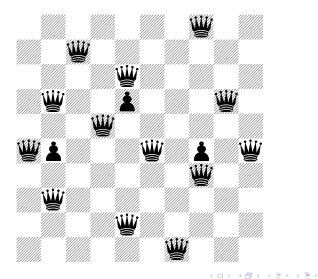


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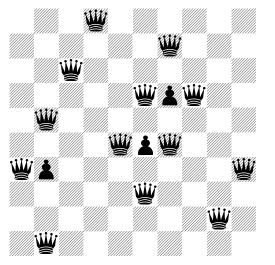
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Solution 47 P: [3, 4], [5, 1], [5, 7] Q: [0, 7], [1, 2], [2, 4], [3, 1], [3, 8], [4, 3], [5, 0], [5, 5], [5, 9], [6, 7], [7, 1], [8, 4], [9, 6]

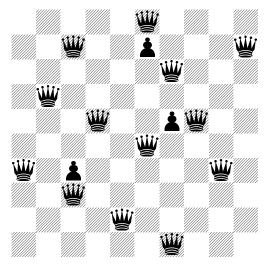


Solution 48 P: [3, 6], [5, 5], [6, 1] Q: [0, 3], [1, 6], [2, 2], [3, 5], [3, 7], [4, 1], [5, 4], [5, 6], [6, 0], [6, 9], [7, 5], [8, 8], [9, 1]

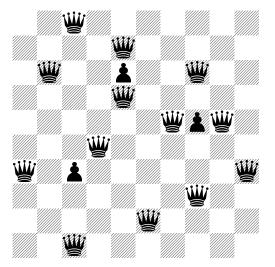


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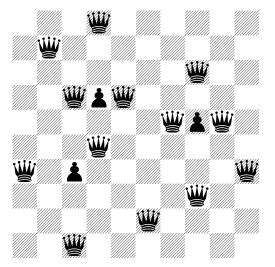
Solution 49 P: [1, 5], [4, 6], [6, 2] Q: [0, 5], [1, 2], [1, 9], [2, 6], [3, 1], [4, 3], [4, 7], [5, 5], [6, 0], [6, 8], [7, 2], [8, 4], [9, 6]



Solution 50 P: [2, 4], [4, 7], [6, 2] Q: [0, 2], [1, 4], [2, 1], [2, 7], [3, 4], [4, 6], [4, 8], [5, 3], [6, 0], [6, 9], [7, 7], [8, 5], [9, 2]



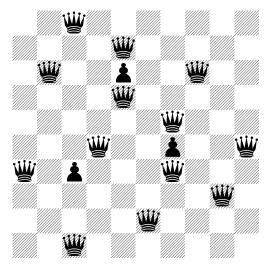
Solution 51 P: [3, 3], [4, 7], [6, 2] Q: [0, 3], [1, 1], [2, 7], [3, 2], [3, 4], [4, 6], [4, 8], [5, 3], [6, 0], [6, 9], [7, 7], [8, 5], [9, 2]



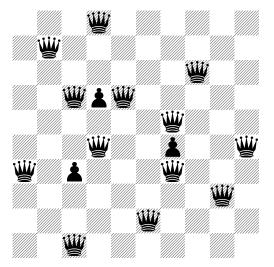
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Solution 52 P: [2, 4], [5, 6], [6, 2] Q: [0, 2], [1, 4], [2, 1], [2, 7], [3, 4], [4, 6], [5, 3], [5, 9], [6, 0], [6, 6], [7, 8], [8, 5], [9, 2]



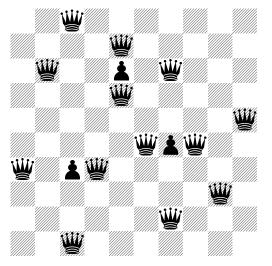
Solution 53 P: [3, 3], [5, 6], [6, 2] Q: [0, 3], [1, 1], [2, 7], [3, 2], [3, 4], [4, 6], [5, 3], [5, 9], [6, 0], [6, 6], [7, 8], [8, 5], [9, 2]



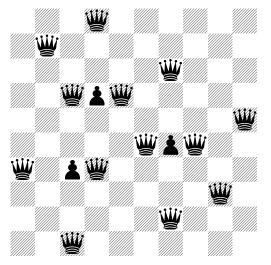
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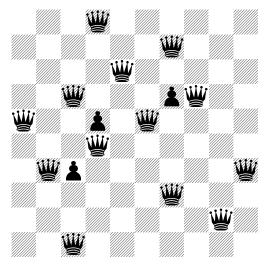
Solution 54 P: [2, 4], [5, 6], [6, 2] Q: [0, 2], [1, 4], [2, 1], [2, 6], [3, 4], [4, 9], [5, 5], [5, 7], [6, 0], [6, 3], [7, 8], [8, 6], [9, 2]



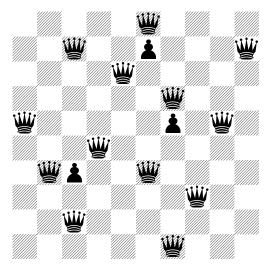
Solution 55 P: [3, 3], [5, 6], [6, 2] Q: [0, 3], [1, 1], [2, 6], [3, 2], [3, 4], [4, 9], [5, 5], [5, 7], [6, 0], [6, 3], [7, 8], [8, 6], [9, 2]



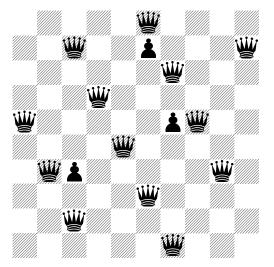
Solution 56 P: [3, 6], [4, 3], [6, 2] Q: [0, 3], [1, 6], [2, 4], [3, 2], [3, 7], [4, 0], [4, 5], [5, 3], [6, 1], [6, 9], [7, 6], [8, 8], [9, 2]



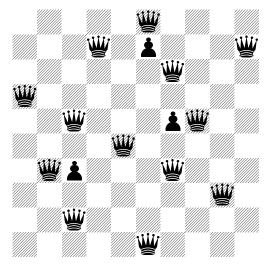
Solution 57 P: [1, 5], [4, 6], [6, 2] Q: [0, 5], [1, 2], [1, 9], [2, 4], [3, 6], [4, 0], [4, 8], [5, 3], [6, 1], [6, 5], [7, 7], [8, 2], [9, 6]



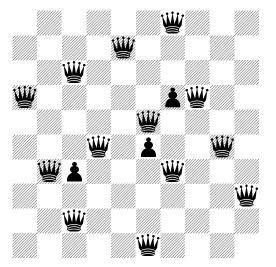
Solution 58 P: [1, 5], [4, 6], [6, 2] Q: [0, 5], [1, 2], [1, 9], [2, 6], [3, 3], [4, 0], [4, 7], [5, 4], [6, 1], [6, 8], [7, 5], [8, 2], [9, 6]



Solution 59 P: [1, 5], [4, 6], [6, 2] Q: [0, 5], [1, 3], [1, 9], [2, 6], [3, 0], [4, 2], [4, 7], [5, 4], [6, 1], [6, 6], [7, 8], [8, 2], [9, 5]

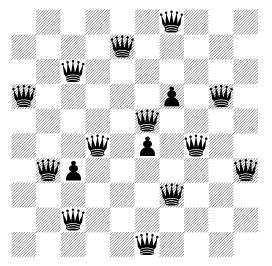


Solution 60 P: [3, 6], [5, 5], [6, 2] Q: [0, 6], [1, 4], [2, 2], [3, 0], [3, 7], [4, 5], [5, 3], [5, 8], [6, 1], [6, 6], [7, 9], [8, 2], [9, 5]

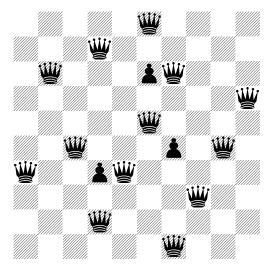


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Solution 61 P: [3, 6], [5, 5], [6, 2] Q: [0, 6], [1, 4], [2, 2], [3, 0], [3, 8], [4, 5], [5, 3], [5, 7], [6, 1], [6, 9], [7, 6], [8, 2], [9, 5]

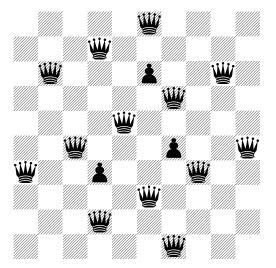


Solution 62 P: [2, 5], [5, 6], [6, 3] Q: [0, 5], [1, 3], [2, 1], [2, 6], [3, 9], [4, 5], [5, 2], [5, 8], [6, 0], [6, 4], [7, 7], [8, 3], [9, 6]



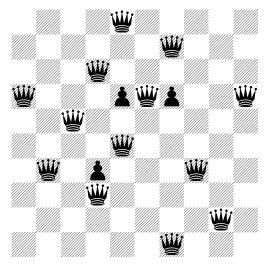
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Solution 63 P: [2, 5], [5, 6], [6, 3] Q: [0, 5], [1, 3], [2, 1], [2, 8], [3, 6], [4, 4], [5, 2], [5, 9], [6, 0], [6, 7], [7, 5], [8, 3], [9, 6]

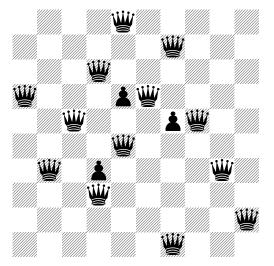


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Solution 64 P: [3, 4], [3, 6], [6, 3] Q: [0, 4], [1, 6], [2, 3], [3, 0], [3, 5], [3, 9], [4, 2], [5, 4], [6, 1], [6, 7], [7, 3], [8, 8], [9, 6]



Solution 65 P: [3, 4], [4, 6], [6, 3] Q: [0, 4], [1, 6], [2, 3], [3, 0], [3, 5], [4, 2], [4, 7], [5, 4], [6, 1], [6, 8], [7, 3], [8, 9], [9, 6]



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Solution 66 P: [2, 5], [4, 6], [6, 3] Q: [0, 2], [1, 5], [2, 3], [2, 8], [3, 6], [4, 4], [4, 9], [5, 7], [6, 1], [6, 5], [7, 3], [8, 6], [9, 0]

