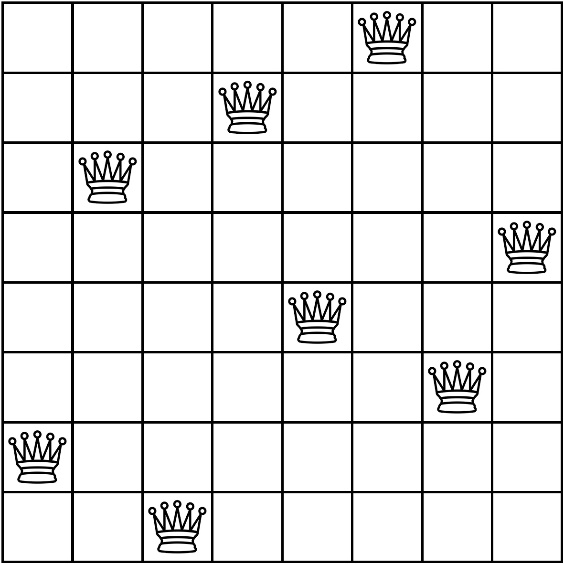
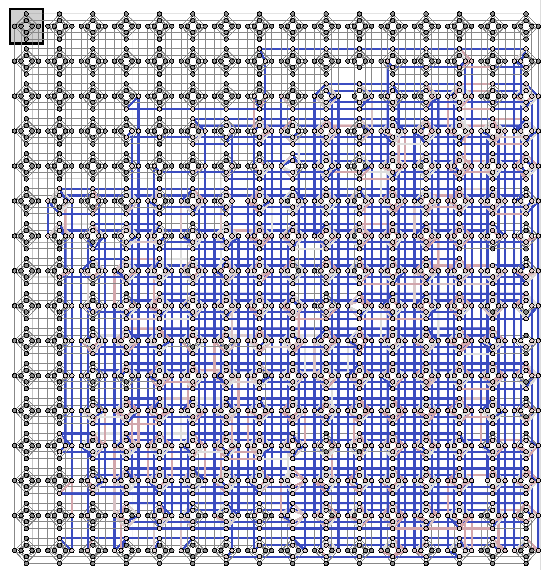
Lösung des n-Damenproblems auf einem adiabatischen Quantencomputer



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Gymnasium der regensburger domspatzen | regensburg

Resultsbook

# Projektidee

Auf einem n x n großen Schachfeld sollen n Damen so aufgestellt werden, dass keine Dame eine andere bedroht. Dieses bekannte Problem haben wir auf einem echten Quantencomputer gelöst. Bei unserem Projekt geht es aber weniger um das Finden der richtigen Lösung des n-Damenproblems (hierfür gibt es bereits viele gut geeignete Algorithmen), sondern um den Weg: die Aufbereitung des Problems zur Ausführung auf einem "Quantum Annealer" (hierzu später mehr). Das n-Damenproblem ist bisher von niemandem für einen Quanten-Annealer adaptiert worden.

Für unser Vorhaben die Aufgabenstellung auf einen Quantencomputer zu übertragen mussten wir das Damenproblem zuerst in die Sprache der Mathematik übersetzen. Es galt eine Funktion zu finden, der die Positionen aller Damen auf dem Schachbrett übergeben werden und die für die eingegebene Konstellation einen Wert, eine Bewertung der Situation zurückgibt, die man in der Optimierung als "Energie" der Verteilung bezeichnet. Diese Funktion muss für die korrekte Lösung des Problems minimal sein, da der Quantencomputer von Natur aus einen möglichst energiearmen Zustand anstrebt, sodass man, wenn er „gerechnet“ hat, die Lösung des Problems an den entsprechenden Werten der Qubits (Entsprechung der herkömmlichen Bits auf einem Computer) ablesen kann, deren Zustände in unserem Fall als boolesche Variablen fungieren.

Um die erschlossene Energiefunktion auf Korrektheit zu testen, haben wir auf klassische Optimierungsalgorithmen wie Simulated Annealing, Threshold Accepting, und den Great Deluge Algorithmus zurückgegriffen, mit denen man das Problem auf konventionellen Computern lösen würde. Diese konnten mit der getesteten Kostenfunktion alle eine Lösung des Problems finden, was grünes Licht für den ersten Test auf einem Quantencomputer bedeutete. Auf diesem haben wir unser „Programm“ dann ausgeführt. Die Rechenzeit auf dem für zehn Millionen Dollar erhältlichen Quantencomputer haben wir vom Forschungszentrum in Jülich (Prof. Dr. Kristel Michielsen) gestellt bekommen.

*Der D-Wave Quanten Annealer 2000Q, auf dem wir unsere Programme ausgeführt haben*

# Datenaustausch mit dem Quantencomputer

Vom Quantencomputer berechnete Ergebnisse

User-Quantencomputer interaktion

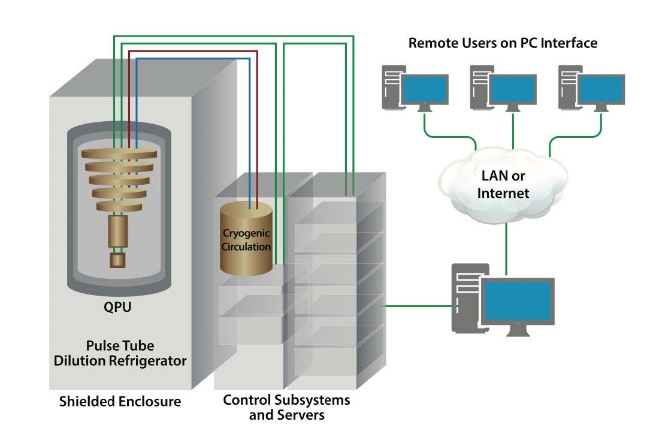
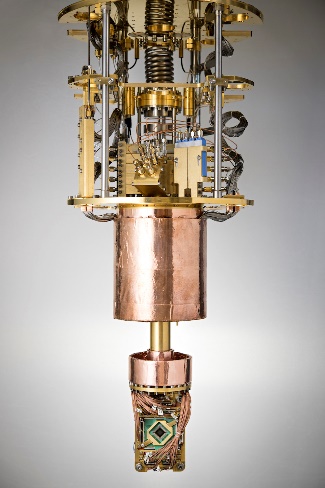
**Q**uantum **P**rocessing **U**nit (QPU)

Chimera-Graph

Python Skript berechnet das Embedding und schickt die Daten an den Quantencomputer

Hamiltonmatrix, die das Problem darstellt

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 |



**from** \_\_future\_\_ **import** print\_function**import** numpy **as** np  
**from** dwave.system.samplers **import** DWaveSampler  
**from** dwave.system.composites **import** EmbeddingComposite  
  
*# Laden der Matrix*

qubomatrix = np.loadtxt(**'qubomatrix.txt'**)  
**print**(**'Loaded matrix:\n'**, qubomatrix, **'\n'**)  
  
*# Konvertieren in QUBO Form*qubo = {(i,i):0.0 **for** i **in** range(len(qubomatrix))}**for** index,value **in** np.ndenumerate(qubomatrix):  
 **if** value != 0:  
 qubo[index] = value  
**print**(**'Converted matrix into QUBO for D-Wave:\n'**, qubo, **'\n'**)  
  
*# Erstellen des Chimera-Graphen und rechnen auf dem Quantencomputer*sampler = EmbeddingComposite(DWaveSampler())  
response = sampler.sample\_qubo(qubo, num\_reads=10000, annealing\_time=20)  
**print**(**'Response from the D-Wave:\n'**, response, **'\n'**)  
  
*# Speichern der Ergebnisse in results.txt***with** open(**'results.txt'**,**'w'**) **as** file:  
 file.write(**'energy\tnum\_occurrences\tsample\n'**)  
 **for** sample, energy, num\_occurrences, cbf **in** response.record:  
 file.write(**'%f\t%d\t%s\n'** % (energy, num\_occurrences, sample))  
 **print**(**'Saved results in results.txt'**)

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# Lösung des 4-Damenproblems

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# Lösung des 4-Damenproblems mit Pegasus-Architektur

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Vor knapp einem Monat hat D-Wave angekündigt, 2020 einen neuen Quantencomputer mit 5000 echten Qubits und 2000 logischen Qubits auf den Markt zu bringen. Außerdem hat D-Wave schon eine Simulation des neuen Quantencomputers vorgestellt, die die neue Pegasus Architektur (statt der bisherigen Chimera-Architektur) simuliert. Obwohl die Simulation nach eigenen Angaben sehr schlechte Ergebnisse liefert, konnten wir das 4-Damenproblem damit lösen. Der echte Quantencomputer wird dann auch sehr viel größere Probleme lösen können.

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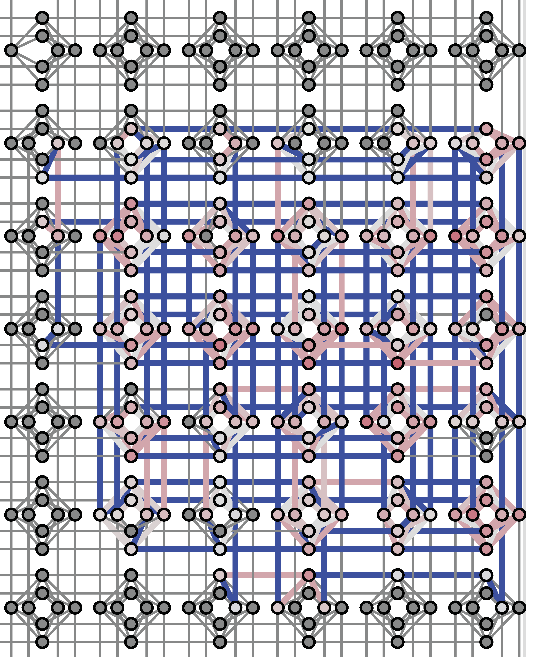
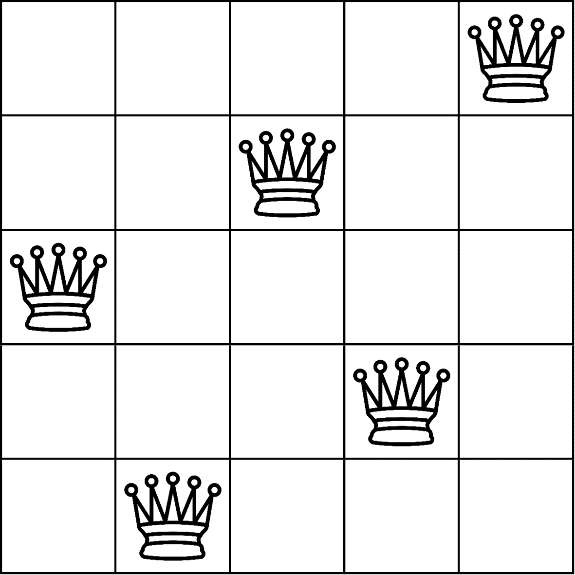
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-6.000000 1 [0 1 0 0 0 0 0 1 0 0 0 0 0 0 1 0]

# Lösung des 5-Damenproblems



|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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| 0 | -2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 |
| 0 | 0 | -2 | 2 | 2 | 0 | 2 | 2 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| 0 | 0 | 0 | -2 | 2 | 0 | 0 | 2 | 2 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 0 |
| 0 | 0 | 0 | 0 | -2 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 2 |
| 0 | 0 | 0 | 0 | 0 | -2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 2 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | -2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 2 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 2 | 2 | 0 | 2 | 2 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 2 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 2 | 0 | 0 | 2 | 2 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 2 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 2 |
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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 0 | 2 | 0 |
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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 2 | 2 | 0 | 2 | 2 | 2 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 2 | 0 | 0 | 2 | 2 | 2 |
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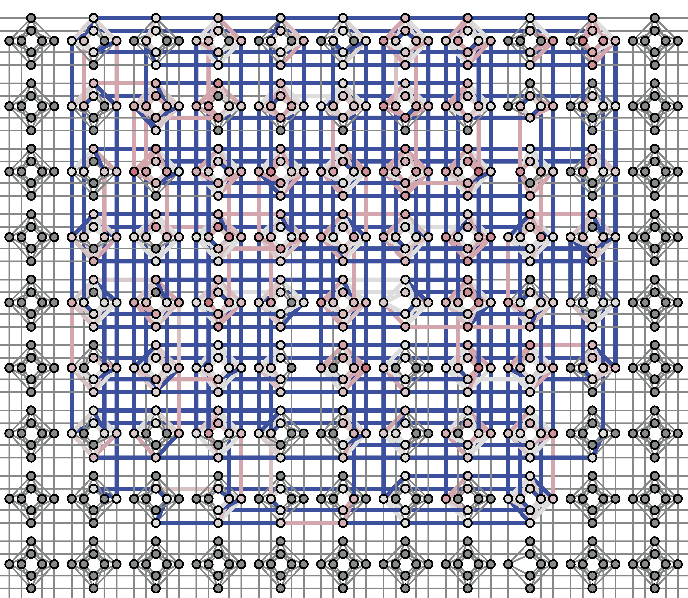
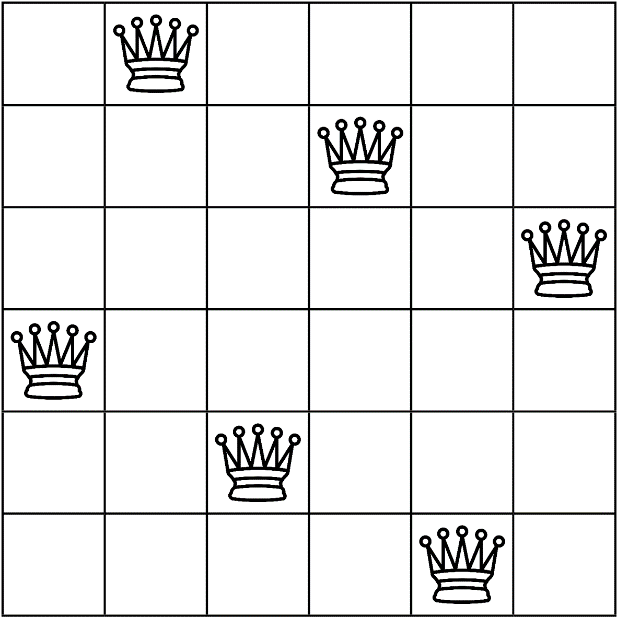
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# Lösung des 6-Damenproblems



|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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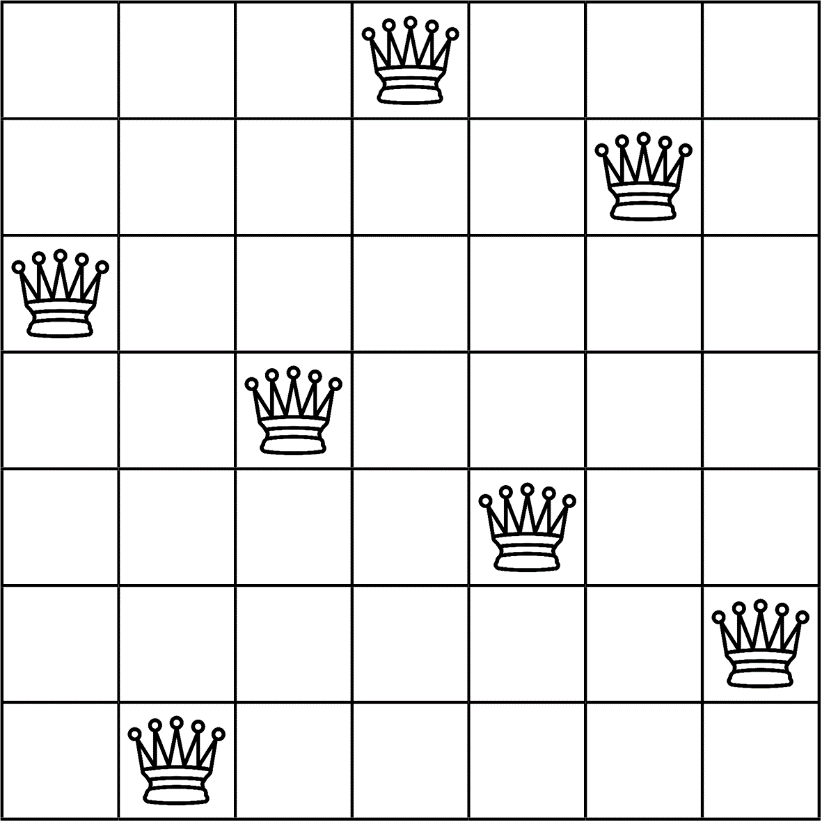
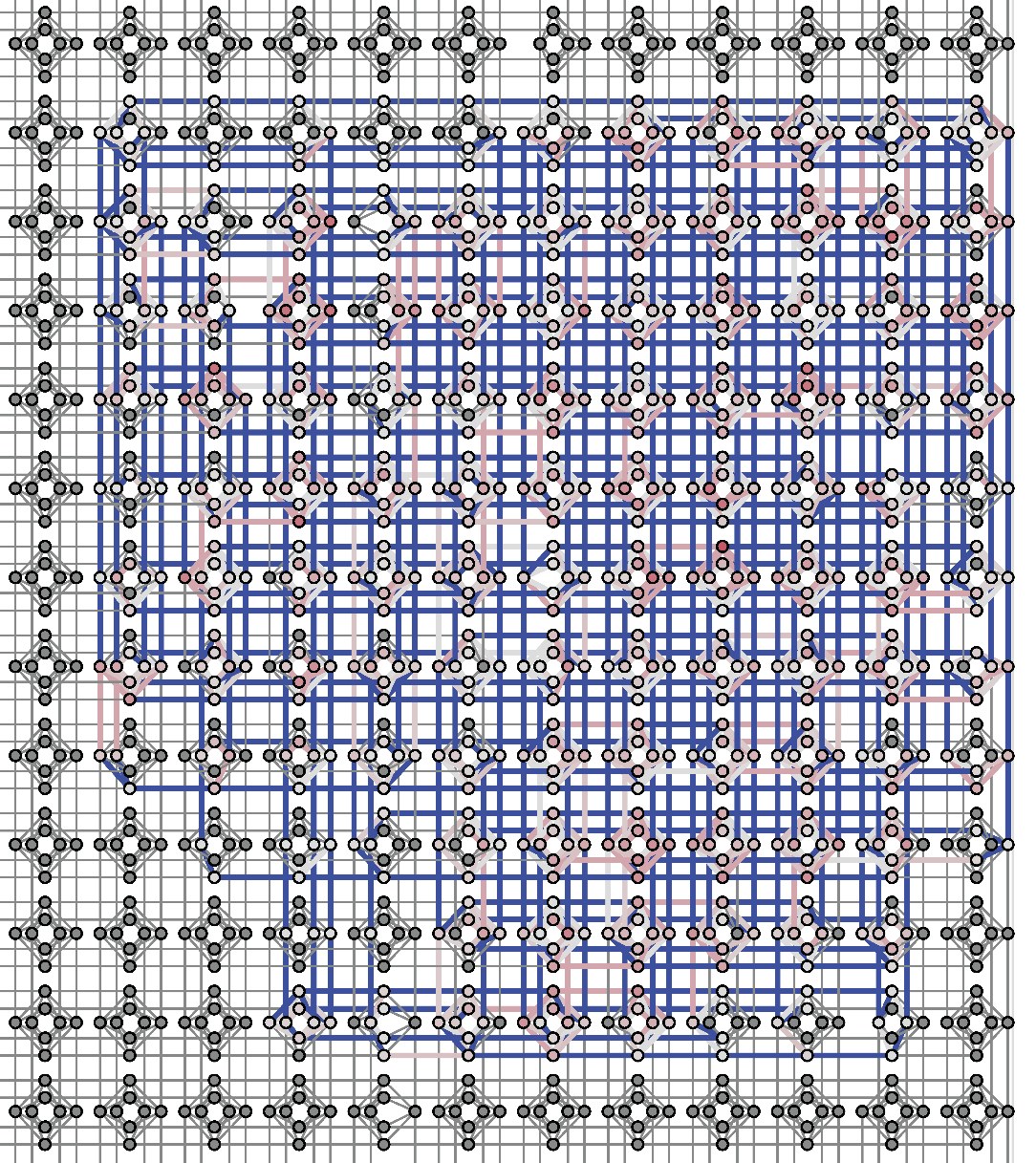
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# Lösung des 7-Damenproblems

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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# Lösung des 8-Damenproblems

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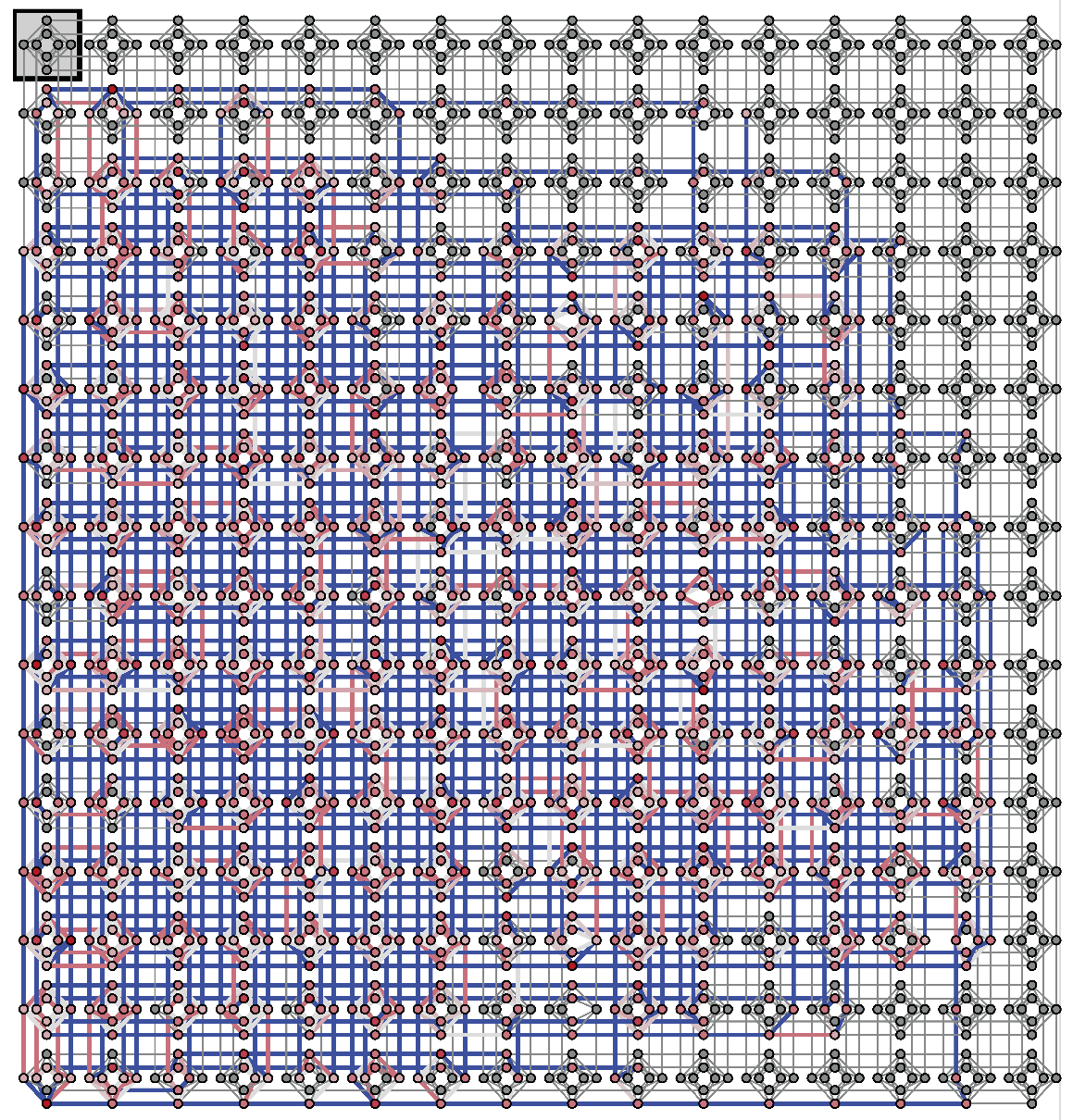
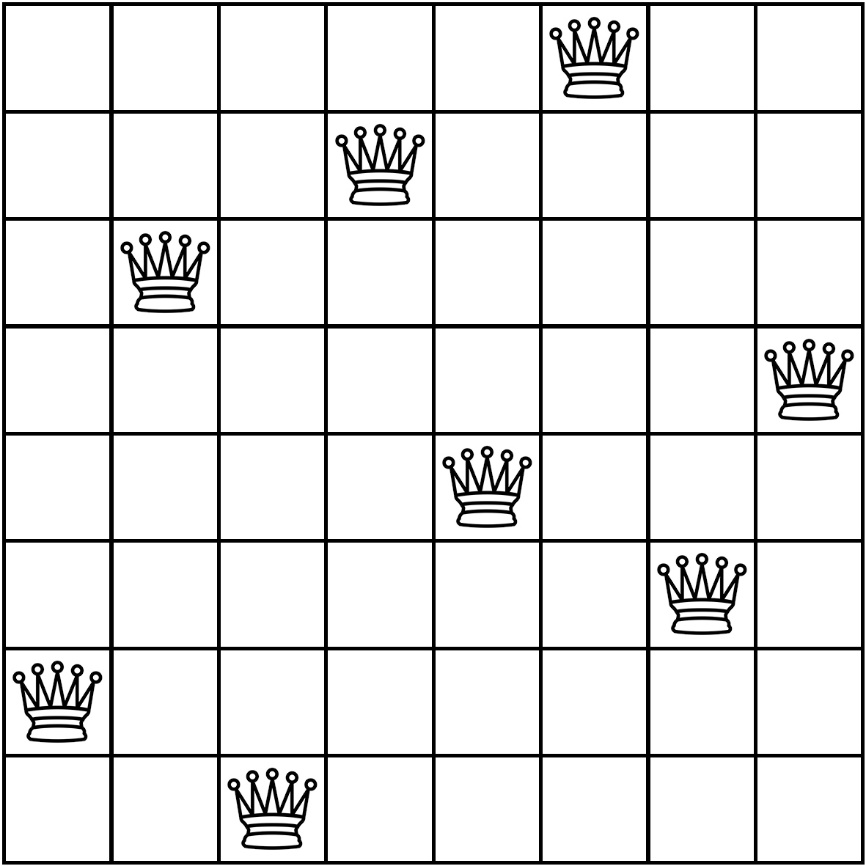
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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 2 | 2 | 2 | 2 | 2 | 0 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 2 | 2 | 2 | 2 | 0 | 0 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
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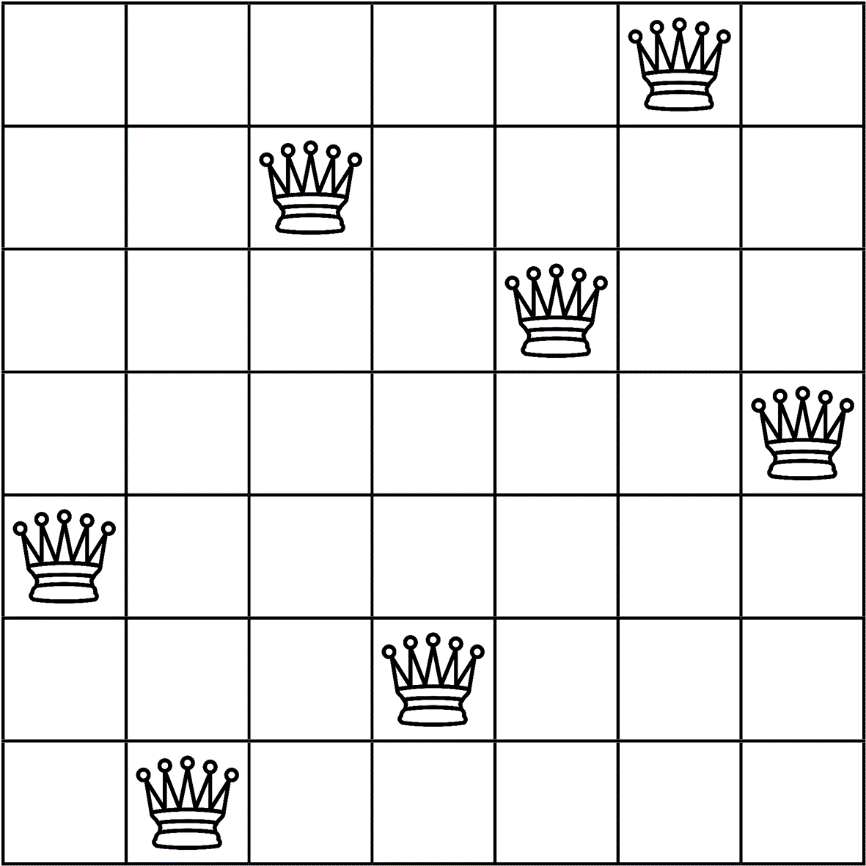
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# Lösung des 7-Damenproblems mit einer freien Gesamtdiagonale

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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| 0 | -2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | -2 | 2 | 2 | 2 | 2 | 0 | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 2 | 2 | 2 | 0 | 0 | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
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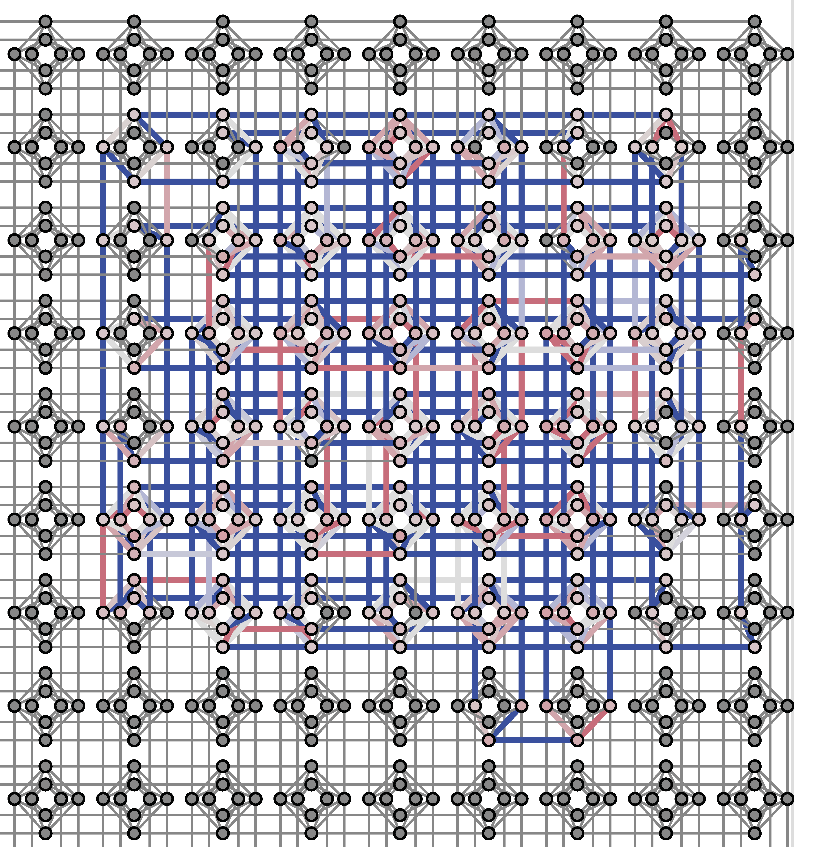
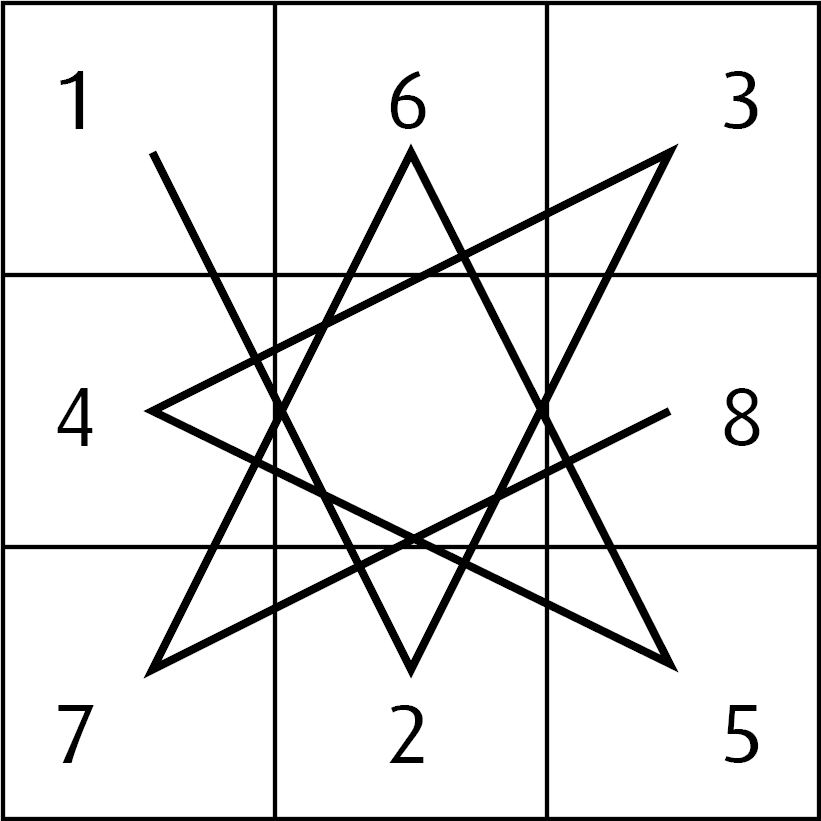
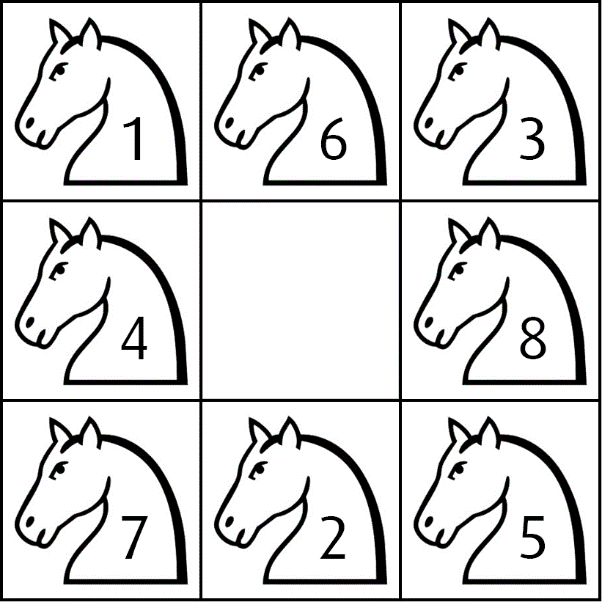
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# Lösung des Springerproblems

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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-8.000000 1 [0 0 1 0 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 1 1 0 0 0 1 0 0 0 0 0 0 1 0 1 0 0]

-8.000000 1 [0 0 0 1 1 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0 1 0 0 0 0 0 1 0 0 1 0 0 0]

-8.000000 1 [0 0 1 0 0 0 0 1 0 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0]

-8.000000 2 [0 0 1 0 1 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0]

-8.000000 1 [0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0]

-8.000000 1 [0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 0]

-8.000000 2 [0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 0 0 0 1 0 0 0 0 0 1 0 0 1 0 0 0]

-8.000000 1 [0 0 1 0 1 1 0 0 0 0 0 1 0 0 1 0 0 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0]

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-8.000000 1 [0 0 1 0 1 0 0 0 0 0 0 0 0 0 0 1 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0]

-8.000000 1 [0 0 1 0 1 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0]

-8.000000 3 [0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0]

-8.000000 4 [0 0 0 0 0 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0]

-8.000000 1 [0 0 0 0 0 1 0 0 0 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0]

-8.000000 1 [0 0 0 0 0 0 0 1 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0]

-8.000000 2 [0 0 0 1 1 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 1 0 0 1 0 0 0]

-8.000000 1 [0 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0]

-8.000000 1 [0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 1 1 0 0 0 0 0 1 0 0 1 0 0 1 0 0 0]

-8.000000 4 [0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 0 0]

-8.000000 1 [0 0 1 0 1 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 0 0 0 1 0 1 0 0 0 0 0 0 0 0 0 0]

-8.000000 5 [0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 1 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0]

-8.000000 1 [0 0 0 0 0 0 0 1 0 1 0 0 0 0 1 0 0 1 0 1 1 0 0 0 0 0 1 0 0 1 0 0 1 0 0 0]

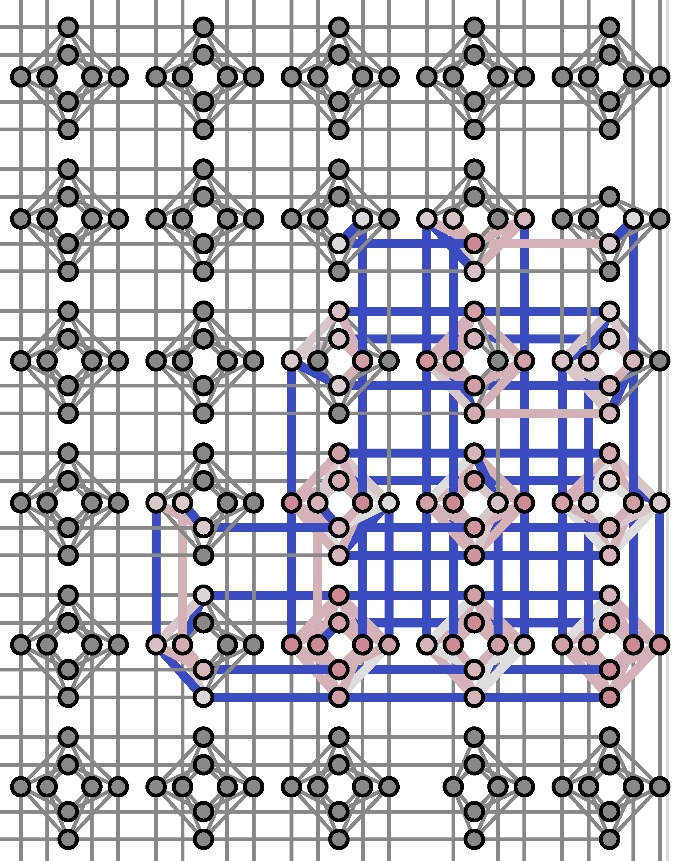
-8.000000 1 [0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 1 0 1 0 0 0 0 1 0 0 0 1 0 0 1 0 0 1 0 0 0]

-8.000000 4 [0 0 1 0 1 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0]

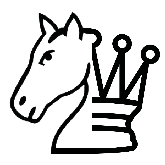
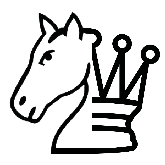
-8.000000 1 [0 0 0 0 0 0 0 1 0 1 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 1 1 0 1 0 0 1 0 0 0]

-8.000000 4 [0 0 1 0 0 1 0 0 0 0 0 1 0 0 1 0 0 1 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0]

# Lösung des 4-Amazonenproblems



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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -2 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | 4 | 4 | 4 | 0 | 4 | 0 | 0 | 4 |
| 0 | -2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | 4 | 0 | 0 |
| 0 | 0 | -2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | 0 | 4 | 0 |
| 0 | 0 | 0 | -2 | 0 | 4 | 4 | 4 | 0 | 4 | 4 | 4 | 4 | 0 | 0 | 4 |
| 0 | 0 | 0 | 0 | -2 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | 4 | 4 | 4 | 0 |
| 0 | 0 | 0 | 0 | 0 | -2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 0 | 0 | 0 | 0 | 0 | 0 | -2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 0 | 4 | 4 | 4 | 0 | 4 | 4 | 4 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 4 | 4 | 4 | 4 | 4 | 4 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 4 | 4 | 4 | 4 | 4 | 4 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 4 | 4 | 4 | 4 | 4 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 0 | 4 | 4 | 4 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 4 | 4 | 4 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 4 | 4 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 4 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 |

-4.000000 0 163 [1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0]

-4.000000 0 150 [1 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0]

-4.000000 0 205 [0 0 0 1 0 0 0 0 0 0 0 0 0 1 0 0]

-4.000000 0 195 [1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0]

-4.000000 0 210 [0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 1]

-4.000000 0 95 [0 0 1 0 0 0 0 0 0 0 0 0 0 1 0 0]

-4.000000 0 91 [0 0 0 0 0 0 0 1 0 0 0 0 1 0 0 0]

-4.000000 0 573 [1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0]

-4.000000 0 317 [0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 1]

-4.000000 0 426 [0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1]

-4.000000 0 74 [0 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0]

-4.000000 0 45 [0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1]

-4.000000 0 62 [0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0]

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-2.000000 0 9 [0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0]

-2.000000 0 24 [1 0 0 0 0 0 0 0 0 0 0 1 0 1 0 0]

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-2.000000 0 38 [0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0]

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-2.000000 0 13 [1 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0]

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-2.000000 0 10 [0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0]

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-2.000000 0 25 [1 0 1 0 0 0 0 0 0 0 0 0 0 1 0 0]

-2.000000 0 21 [0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0]

-2.000000 0 2 [0 0 0 0 0 0 0 1 0 0 0 1 1 0 0 0]

-2.000000 0 31 [0 0 1 0 0 0 0 0 0 0 0 0 1 1 0 0]

-2.000000 0 107 [1 0 0 0 0 0 0 1 0 0 0 0 1 0 0 0]

-2.000000 0 24 [0 0 0 0 1 0 0 0 0 0 0 1 0 0 0 1]

-2.000000 0 127 [0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0]

-2.000000 0 86 [1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0]

-2.000000 0 31 [0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 1]

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-2.000000 0 13 [0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0]

-2.000000 0 11 [0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 1]

-2.000000 0 29 [0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0]

-2.000000 0 29 [0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0]

-2.000000 0 108 [0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0]

-2.000000 0 24 [1 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0]

-2.000000 0 100 [1 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0]

-2.000000 0 22 [0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0]

-2.000000 0 18 [0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0]

-2.000000 0 138 [1 0 0 1 0 0 0 0 0 0 0 0 0 0 1 0]

-2.000000 0 94 [0 0 1 0 1 0 0 0 0 0 0 0 0 0 0 1]

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-2.000000 0 73 [0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 1]

-2.000000 0 115 [0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 1]

-2.000000 0 7 [0 1 0 0 0 0 0 1 0 0 0 0 1 0 0 0]

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-2.000000 0 7 [0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0]

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-2.000000 0 13 [1 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0]

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-2.000000 0 41 [0 0 0 1 1 0 0 0 0 0 0 1 0 0 0 0]

-2.000000 0 281 [0 0 0 1 1 0 0 0 1 0 0 0 0 0 0 0]

-2.000000 0 17 [0 1 1 0 0 0 0 0 0 0 0 0 1 0 0 0]

0.000000 0 6 [0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1]

0.000000 0 3 [0 0 0 0 0 0 0 0 0 0 0 1 0 1 0 0]

0.000000 0 4 [0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0]

0.000000 0 4 [0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0]

0.000000 0 9 [0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0]

0.000000 0 1 [0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0]

0.000000 0 11 [0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1]

0.000000 0 5 [0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1]

0.000000 0 1 [0 0 0 0 1 0 0 0 0 0 0 0 0 1 0 0]

0.000000 0 7 [0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0]

0.000000 0 9 [0 0 0 0 0 0 0 1 0 1 0 0 0 0 0 0]

0.000000 0 5 [0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0]

0.000000 0 4 [0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 1]

0.000000 0 7 [0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0]

0.000000 0 2 [0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 0]

0.000000 0 17 [1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0]

0.000000 0 1 [0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0]

0.000000 0 5 [1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0]

0.000000 0 10 [0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0]

0.000000 0 39 [0 0 0 0 0 1 0 0 0 0 0 0 1 0 0 0]

0.000000 0 24 [0 0 0 0 0 0 1 0 1 0 0 0 0 0 0 0]

0.000000 0 7 [0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0]

0.000000 0 39 [0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0]

0.000000 0 33 [1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0]

0.000000 0 12 [1 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0]

0.000000 0 3 [0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0]

0.000000 0 3 [0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0]

0.000000 0 2 [0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0]

0.000000 0 4 [0 0 0 1 0 0 0 0 0 0 0 0 1 0 0 0]

0.000000 0 6 [0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0]

0.000000 0 2 [0 0 0 0 0 0 0 0 1 0 1 0 0 0 0 0]

0.000000 0 9 [0 0 0 0 0 1 0 0 1 0 0 0 0 0 0 0]

0.000000 0 34 [0 0 0 1 0 1 0 0 0 0 0 0 0 0 0 0]

0.000000 0 2 [0 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0]

0.000000 0 12 [0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0]

0.000000 0 12 [0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0]

0.000000 0 7 [0 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0]

0.000000 0 12 [0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0]

0.000000 0 7 [0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0]

0.000000 0 2 [0 1 1 0 0 0 0 0 0 0 0 0 1 0 0 1]

0.000000 0 28 [0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0]

0.000000 0 83 [0 0 0 1 1 0 0 0 1 0 0 0 0 0 0 1]

0.000000 0 5 [0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0]

0.000000 0 3 [0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 0]

0.000000 0 16 [0 0 1 0 0 0 0 0 1 0 0 0 0 0 0 0]

0.000000 0 3 [0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0]

2.000000 0 2 [1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1]

2.000000 0 5 [0 0 0 0 1 0 0 0 0 0 0 0 0 1 0 1]

2.000000 0 1 [1 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0]

2.000000 0 1 [0 0 0 0 0 0 0 1 0 0 0 0 1 1 0 0]

2.000000 0 2 [1 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0]

2.000000 0 2 [1 0 0 0 1 0 0 0 0 0 0 0 0 1 0 0]

2.000000 0 1 [0 0 0 0 0 0 0 0 0 0 0 1 1 1 0 0]

2.000000 0 1 [0 0 1 0 0 0 0 0 0 1 0 0 0 1 0 0]

2.000000 0 2 [0 0 0 1 0 0 0 0 0 0 0 0 0 1 0 1]

2.000000 0 3 [0 0 0 0 0 0 0 0 1 0 0 0 0 1 0 1]

2.000000 0 8 [1 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0]

2.000000 0 15 [1 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0]

2.000000 0 1 [1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1]

2.000000 0 4 [1 0 0 0 0 0 0 1 0 1 0 0 0 0 0 0]

0.000000 0 8 [0 0 0 0 0 0 0 0 0 1 0 0 0 0 1 0]

0.000000 0 20 [1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1]

0.000000 0 2 [0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0]

0.000000 0 6 [0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1]

0.000000 0 21 [0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0]

0.000000 0 21 [1 0 0 1 0 0 0 0 0 0 0 0 0 1 1 0]

0.000000 0 43 [0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 1]

0.000000 0 5 [0 0 0 0 0 0 0 0 0 1 0 1 0 0 0 0]

0.000000 0 21 [0 0 0 0 0 0 1 0 0 1 0 0 0 0 0 0]

0.000000 0 1 [0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0]

0.000000 0 6 [0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 0]

0.000000 0 14 [0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0]

0.000000 0 3 [0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0]

0.000000 0 28 [0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0]

0.000000 0 3 [0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0]

0.000000 0 12 [0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1]

0.000000 0 4 [0 0 0 0 0 1 0 1 0 0 0 0 0 0 0 0]

0.000000 0 38 [1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0]

0.000000 0 14 [0 0 0 0 0 1 0 0 0 0 0 0 0 0 1 0]

0.000000 0 6 [0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0]

0.000000 0 1 [0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0]

0.000000 0 2 [0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0]

0.000000 0 9 [0 0 0 0 0 0 1 0 0 0 0 1 0 0 0 0]

0.000000 0 5 [0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1]

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0.000000 0 3 [0 0 0 0 0 0 0 0 1 0 0 0 0 1 0 0]

0.000000 0 5 [1 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0]

0.000000 0 5 [0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0]

0.000000 0 3 [0 0 0 0 1 0 0 1 0 0 0 0 0 0 0 0]

0.000000 0 6 [0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0]

0.000000 0 14 [1 0 0 0 0 0 0 1 0 0 0 1 1 0 0 0]

0.000000 0 7 [0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0]

0.000000 0 35 [1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0]

0.000000 0 1 [0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0]

0.000000 0 4 [0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0]

0.000000 0 1 [0 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0]

0.000000 0 2 [0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0]

0.000000 0 7 [0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0]

0.000000 0 7 [1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0]

0.000000 0 8 [0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0]

0.000000 0 8 [0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 0]

0.000000 0 35 [0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0]

0.000000 0 27 [0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1]

0.000000 0 9 [0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 0]

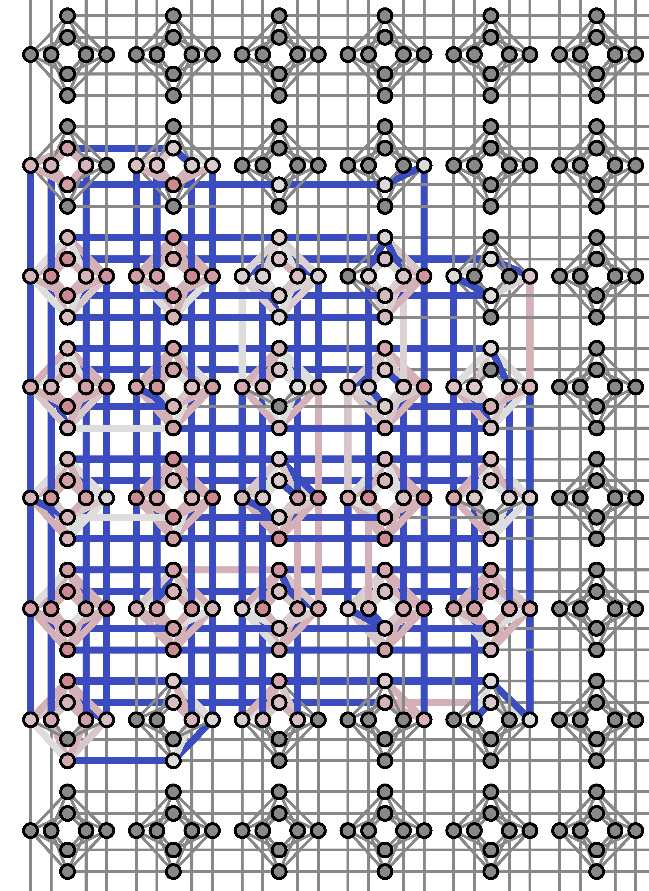
0.000000 0 79 [1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0]

0.000000 0 14 [0 0 0 0 1 0 1 0 0 0 0 0 0 0 0 0]

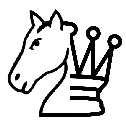
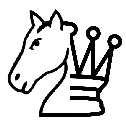
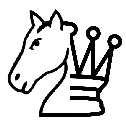
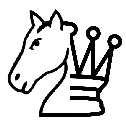
0.000000 0 5 [0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0]

0.000000 0 38 [0 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0]

# Lösung des 5-Amazonenproblems



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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | 0 | 4 | 4 | 4 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 4 |
| 0 | -2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | 4 | 4 | 4 | 4 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 |
| 0 | 0 | -2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 4 | 0 | 0 |
| 0 | 0 | 0 | -2 | 4 | 0 | 4 | 4 | 4 | 4 | 0 | 4 | 4 | 4 | 4 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 4 | 0 |
| 0 | 0 | 0 | 0 | -2 | 0 | 0 | 4 | 4 | 4 | 0 | 0 | 4 | 4 | 4 | 0 | 4 | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 4 |
| 0 | 0 | 0 | 0 | 0 | -2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | 0 | 4 | 4 | 4 | 0 | 0 | 4 | 0 | 0 | 4 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | -2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | 4 | 4 | 4 | 4 | 0 | 0 | 4 | 0 | 0 | 4 |
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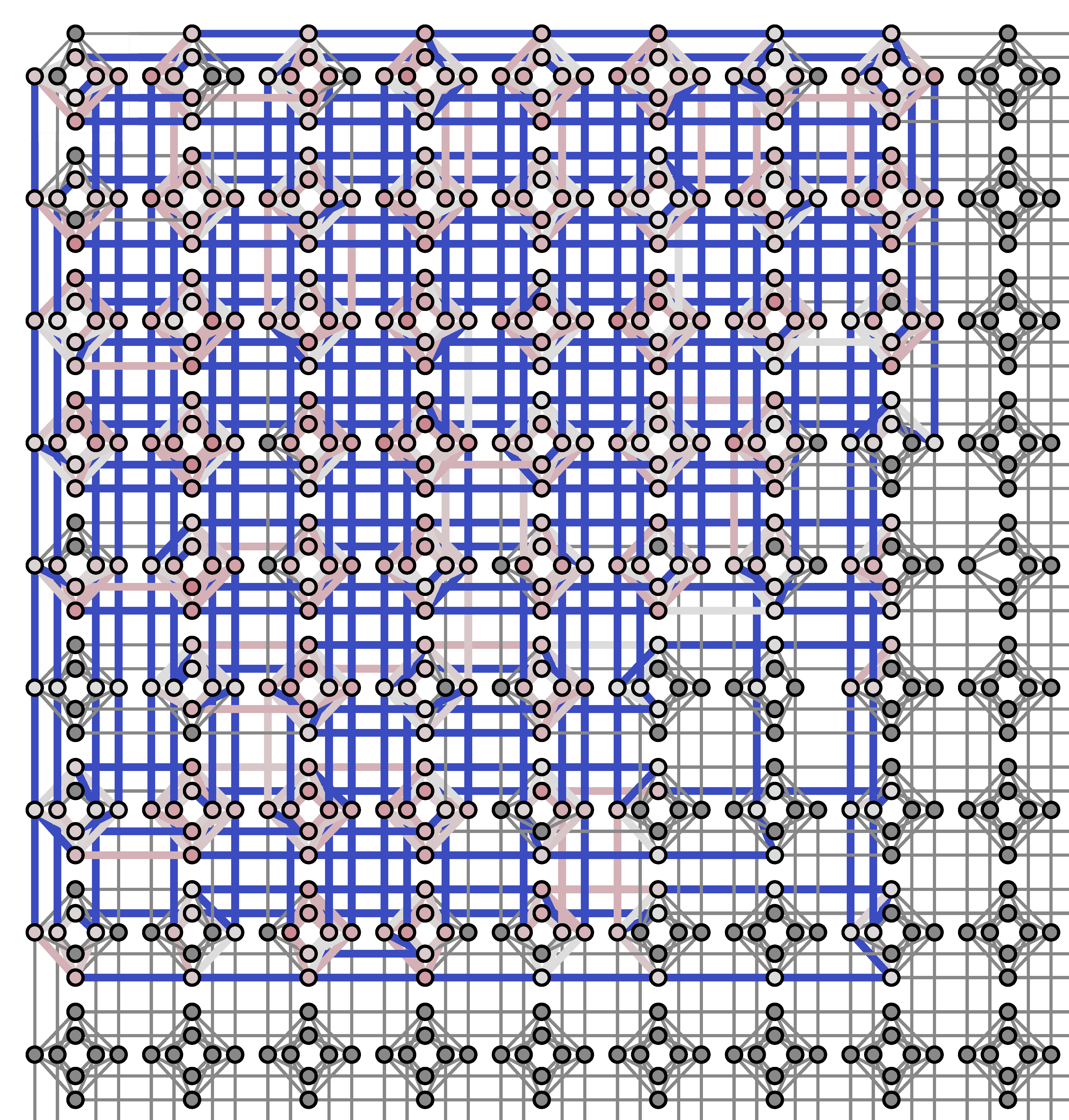
-2.000000 0 14 [0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 0 0 0 0]

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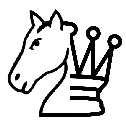
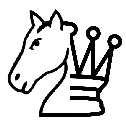
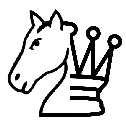
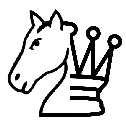
-2.000000 0 3 [0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0]

# Lösung des 6-Amazonenproblems

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | 0 | 0 | 4 | 4 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 4 |
| 0 | -2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | 0 | 4 | 4 | 4 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 0 |
| 0 | 0 | -2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | 4 | 4 | 4 | 4 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 |
| 0 | 0 | 0 | -2 | 4 | 4 | 0 | 4 | 4 | 4 | 4 | 4 | 0 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 |
| 0 | 0 | 0 | 0 | -2 | 4 | 0 | 0 | 4 | 4 | 4 | 4 | 0 | 0 | 4 | 4 | 4 | 4 | 0 | 4 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| 0 | 0 | 0 | 0 | 0 | -2 | 0 | 0 | 0 | 4 | 4 | 4 | 0 | 0 | 0 | 4 | 4 | 4 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 0 | 4 |
| 0 | 0 | 0 | 0 | 0 | 0 | -2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | 0 | 0 | 4 | 4 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | 0 | 4 | 4 | 4 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 4 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | 4 | 4 | 4 | 4 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 4 | 4 | 0 | 4 | 4 | 4 | 4 | 4 | 0 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 4 | 0 | 0 | 4 | 4 | 4 | 4 | 0 | 0 | 4 | 4 | 4 | 4 | 0 | 4 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 4 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 0 | 0 | 0 | 4 | 4 | 4 | 0 | 0 | 0 | 4 | 4 | 4 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 4 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | 0 | 0 | 4 | 4 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | 0 | 4 | 4 | 4 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | 4 | 4 | 4 | 4 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 4 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 4 | 4 | 0 | 4 | 4 | 4 | 4 | 4 | 0 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | 0 | 4 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 4 | 0 | 0 | 4 | 4 | 4 | 4 | 0 | 0 | 4 | 4 | 4 | 4 | 0 | 4 | 0 | 0 | 4 | 0 |
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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | 0 | 4 | 4 | 4 | 4 | 0 | 0 |
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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 0 |
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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 4 | 4 | 4 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 4 | 4 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 4 |
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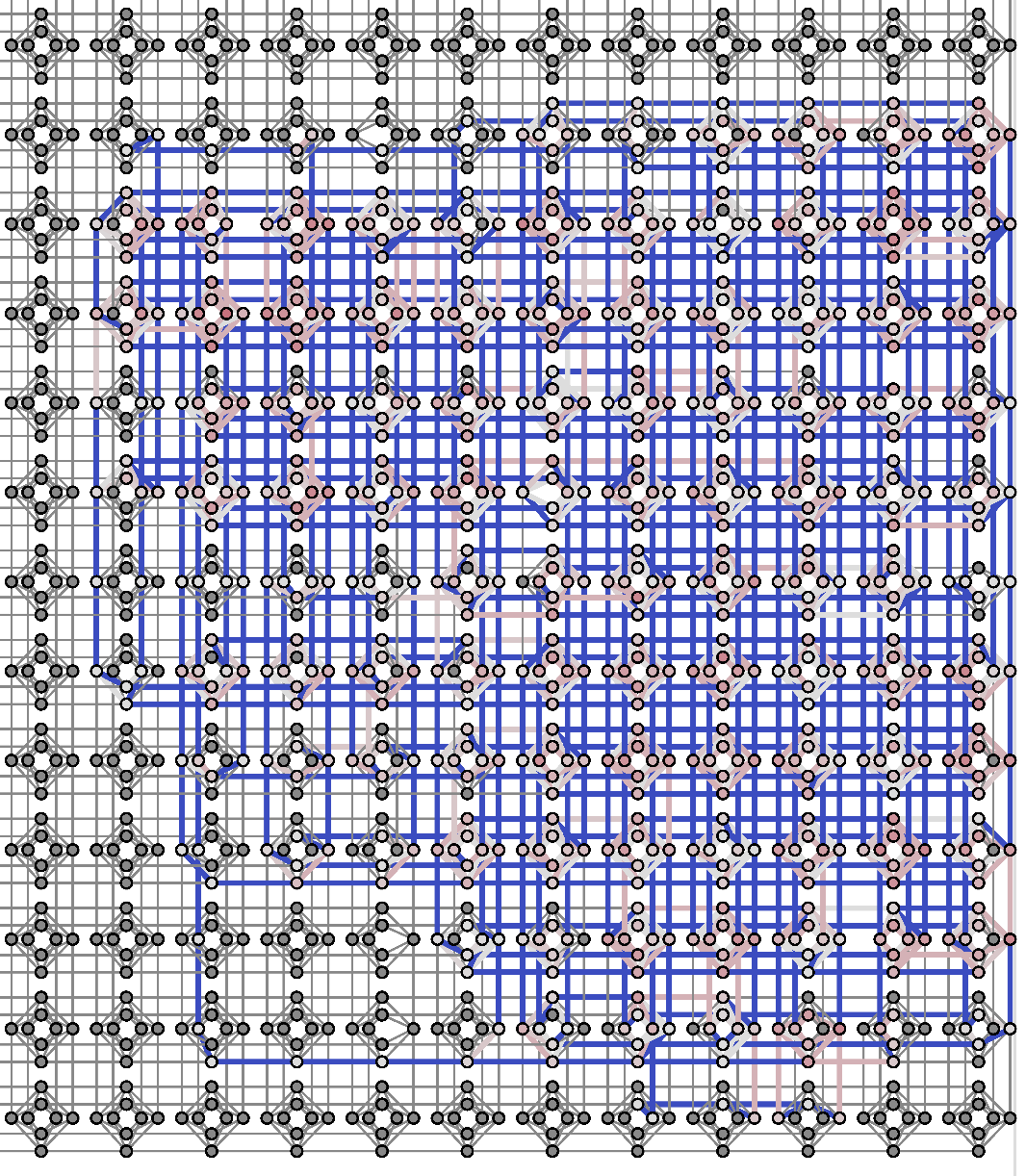
-6.000000 0 6 [0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0]

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# Lösung des 7-Amazonenproblems

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| -2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | 0 | 0 | 0 | 4 | 4 | 4 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 4 |
| 0 | -2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | 0 | 0 | 4 | 4 | 4 | 4 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
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| 0 | 0 | 0 | -2 | 4 | 4 | 4 | 0 | 4 | 4 | 4 | 4 | 4 | 0 | 0 | 4 | 4 | 4 | 4 | 4 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | -2 | 4 | 4 | 0 | 0 | 4 | 4 | 4 | 4 | 4 | 0 | 0 | 4 | 4 | 4 | 4 | 4 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | -2 | 4 | 0 | 0 | 0 | 4 | 4 | 4 | 4 | 0 | 0 | 0 | 4 | 4 | 4 | 4 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | -2 | 0 | 0 | 0 | 0 | 4 | 4 | 4 | 0 | 0 | 0 | 0 | 4 | 4 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 4 |
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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | 0 | 0 | 4 | 4 | 4 | 4 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | 0 | 4 | 4 | 4 | 4 | 4 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 4 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 4 | 4 | 4 | 0 | 4 | 4 | 4 | 4 | 4 | 0 | 0 | 4 | 4 | 4 | 4 | 4 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 0 |
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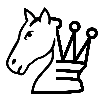
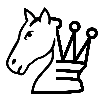
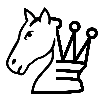
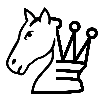
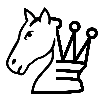
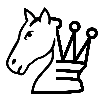
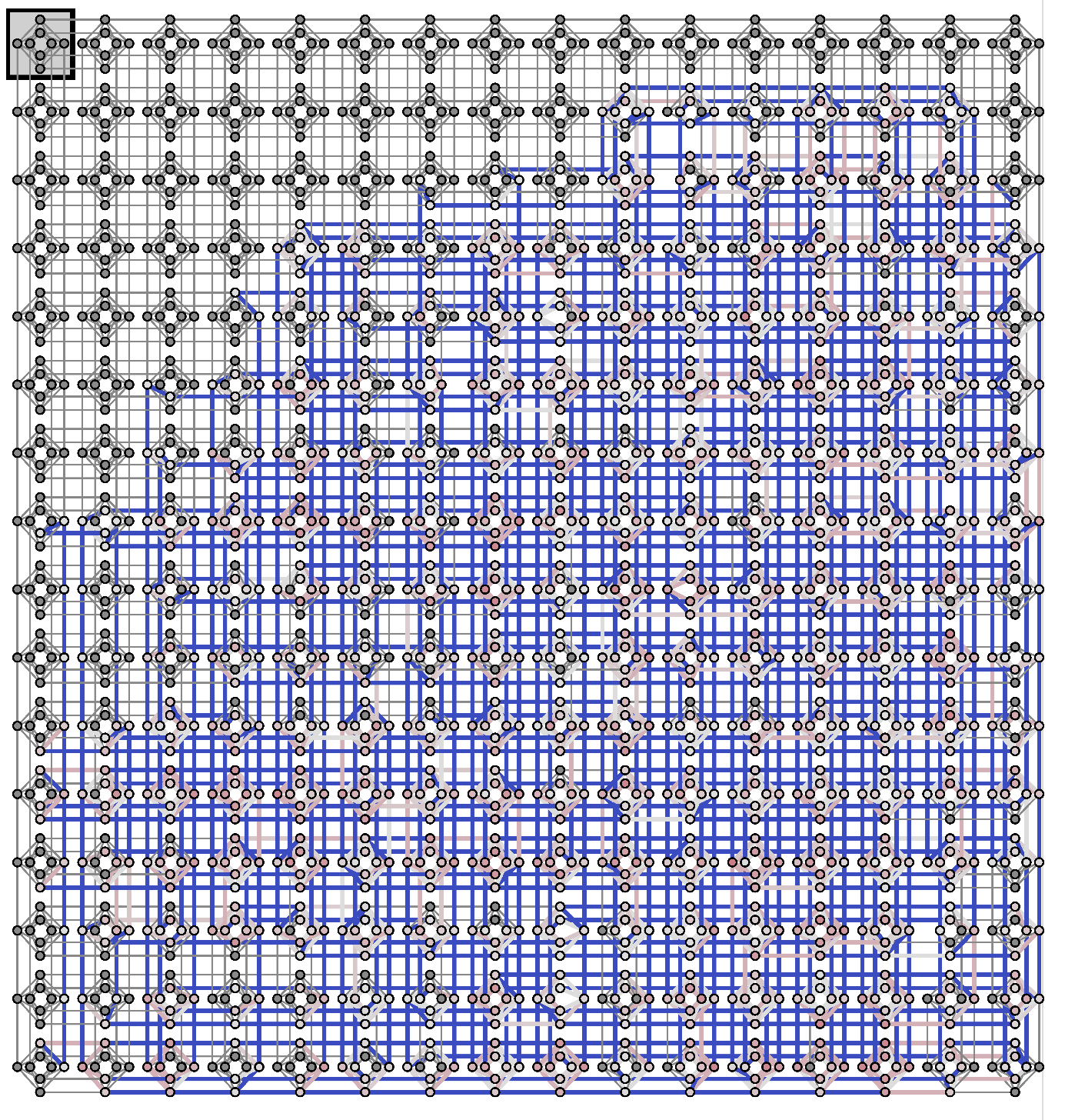
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# Lösung des 8-Amazonenproblems

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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-10.000000 0 1 [0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0]

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-8.000000 0 1 [0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0]

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-8.000000 0 1 [0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0]

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-8.000000 0 1 [0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0]

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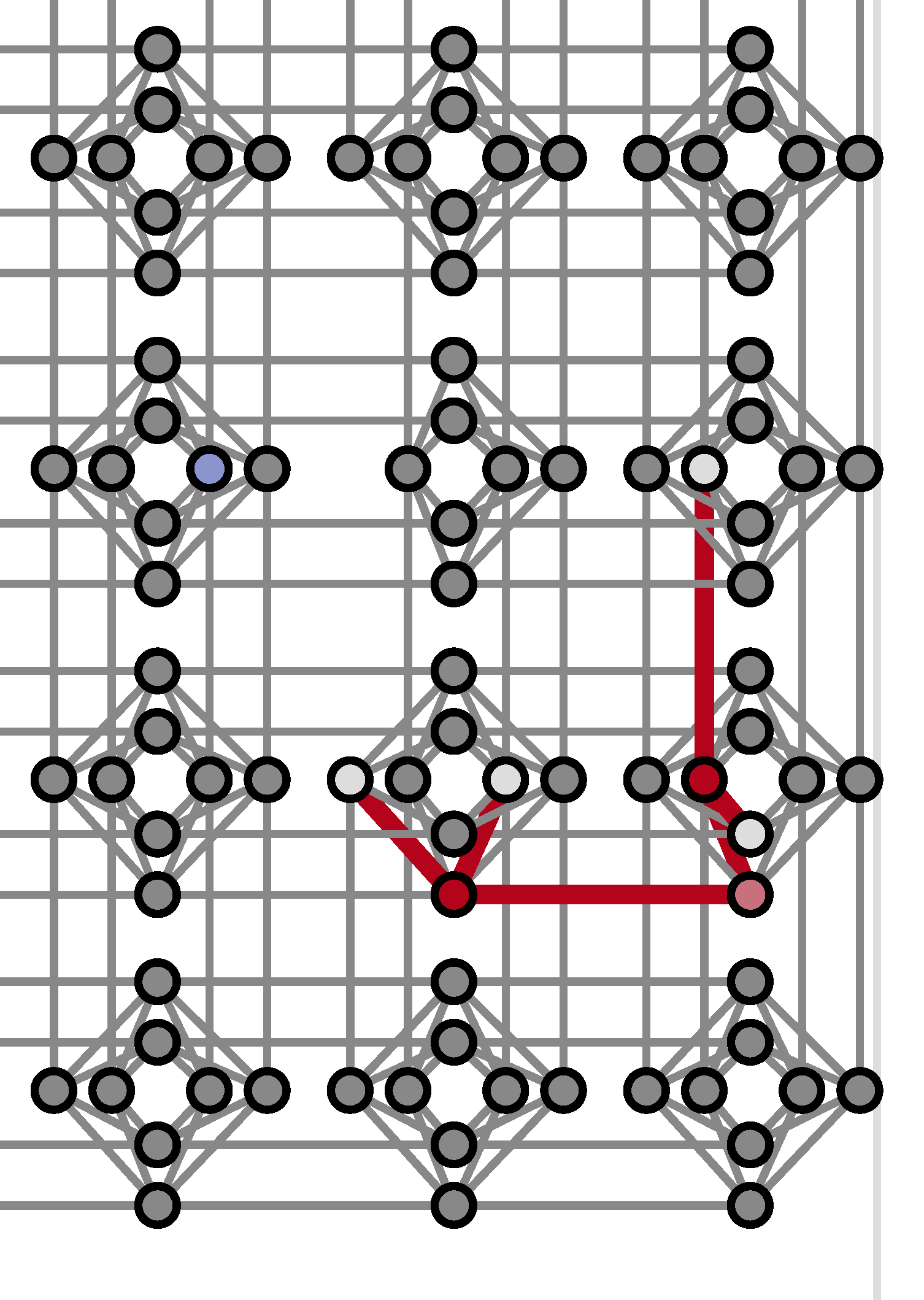
-8.000000 0 1 [0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0]

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-8.000000 0 2 [0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0]



# Lösung eines leichten 4 x 4 Sudokus

-16.000000 0 9990 [1 1 1 0 1 1 0 1 1 1]

-14.000000 0 1 [1 1 0 0 1 1 0 1 1 1]

-14.000000 0 2 [1 1 1 0 1 1 0 0 1 1]

-14.000000 0 2 [1 1 1 0 1 1 0 1 0 1]

-14.000000 0 1 [1 1 1 0 1 0 0 1 1 1]

-14.000000 0 1 [1 1 1 0 0 1 0 1 1 1]

-14.000000 0 3 [0 1 1 0 1 1 0 1 1 1]

Gegebenes Sudoku

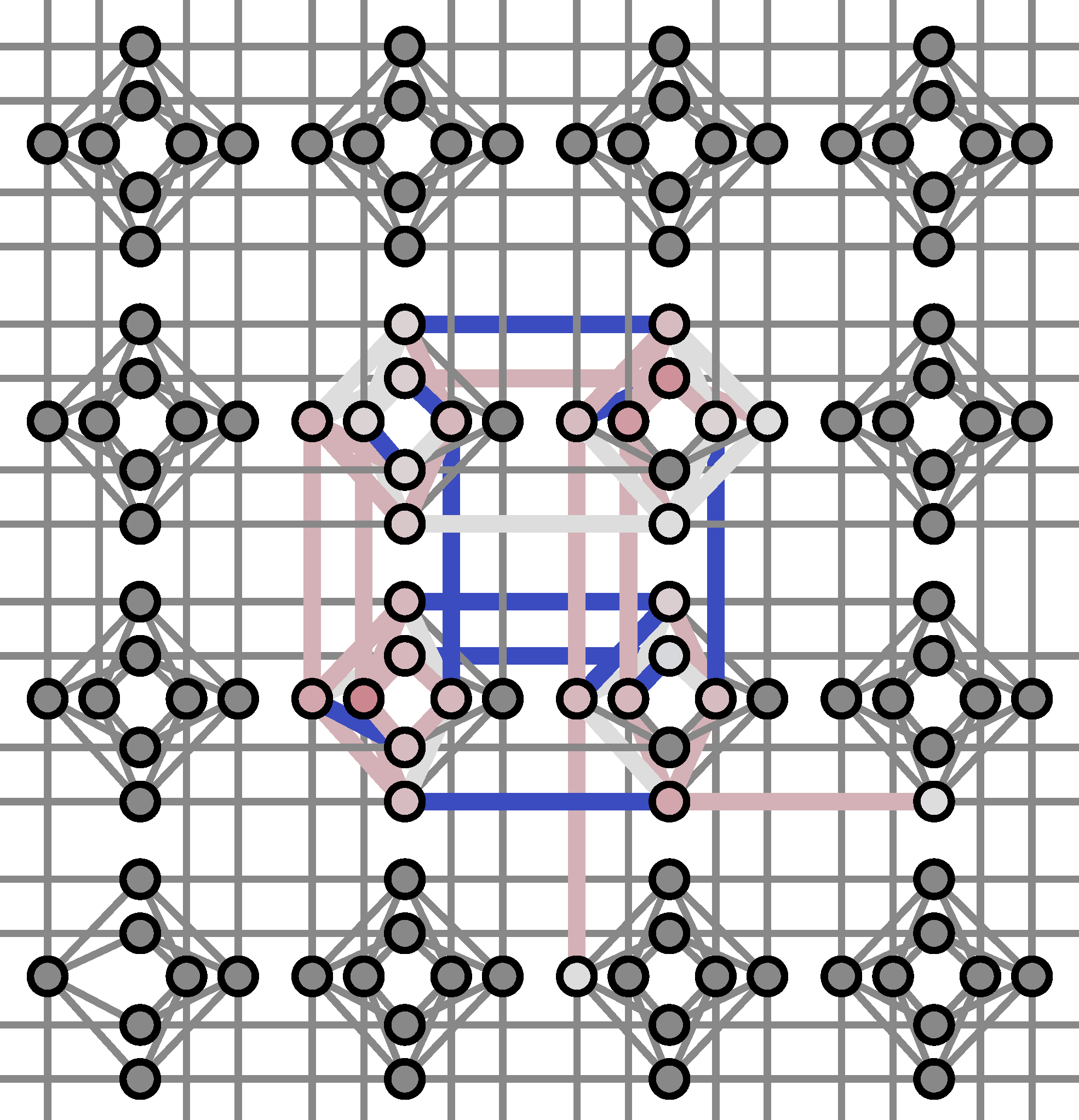
Lösung des Sudokus

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| --- | --- | --- | --- |
| 2 |  | 1 |  |
|  |  |  | 3 |
|  |  | 4 |  |
| 4 | 1 | 3 | 2 |

|  |  |  |  |
| --- | --- | --- | --- |
| 2 | 3 | 1 | 4 |
| 1 | 4 | 2 | 3 |
| 3 | 2 | 4 | 1 |
| 4 | 1 | 3 | 2 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | -2 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 |
| 0 | 0 | -2 | 4 | 0 | 0 | 4 | 0 | 0 | 0 |
| 0 | 0 | 0 | -2 | 4 | 0 | 0 | 0 | 4 | 0 |
| 0 | 0 | 0 | 0 | -2 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | -2 | 4 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | -2 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 |

# Lösung eines schweren 4 x 4 Sudokus



|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | -2 | 4 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | -2 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| 0 | 0 | 0 | -2 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 4 |
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|  |  |  |  |
| --- | --- | --- | --- |
| 1 | 2 | 3 | 4 |
| 3 | 4 | 2 | 1 |
| 4 | 3 | 1 | 2 |
| 2 | 1 | 4 | 3 |

Lösung des Sudokus

|  |  |  |  |
| --- | --- | --- | --- |
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| 3 |  |  |  |
| 4 |  | 1 |  |
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Gegebenes Sudoku

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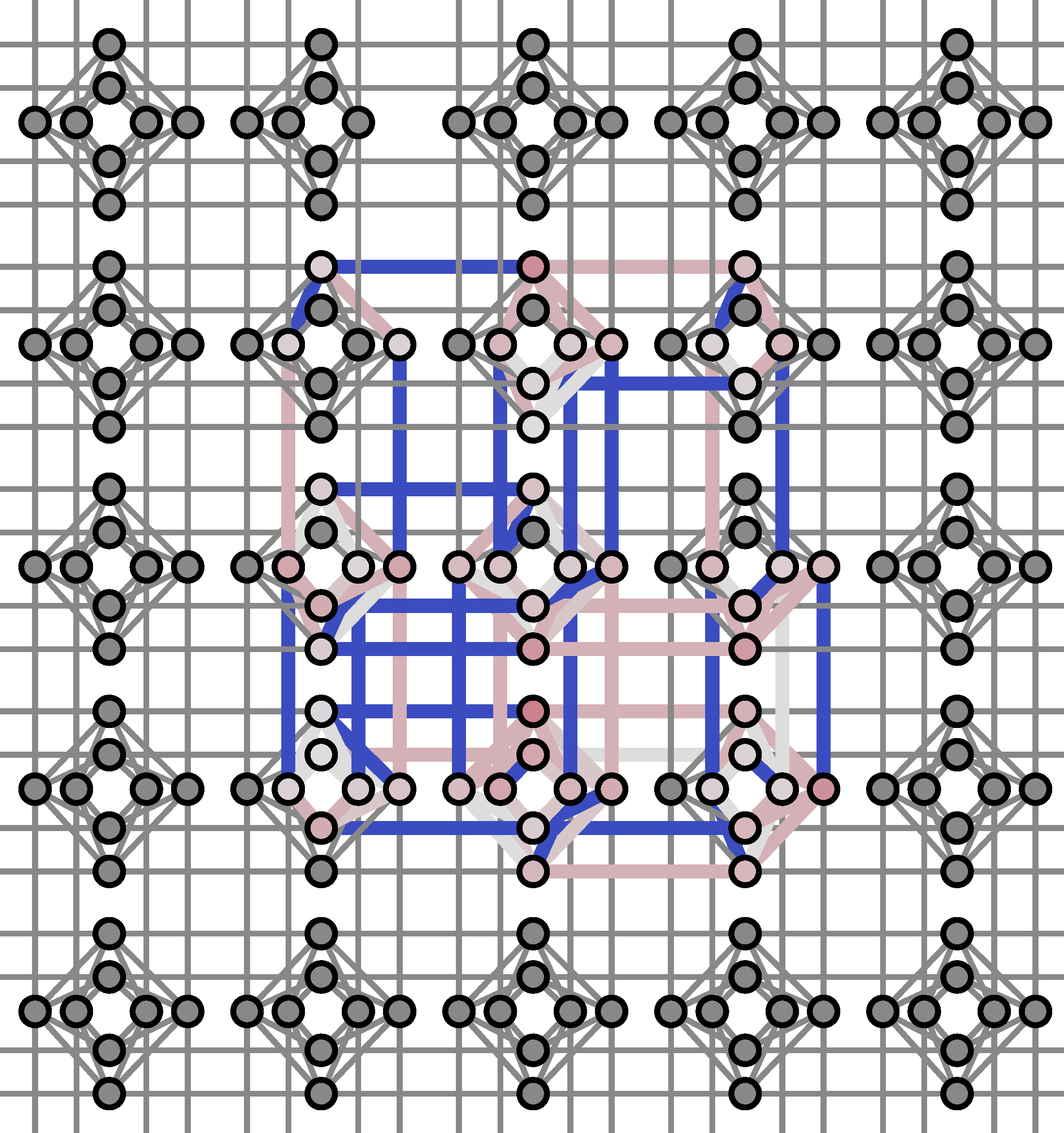
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# Lösung eines sehr schweren 4 x 4 Sudokus



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|  |  |  |  |
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| 3 | 2 | 1 | 4 |
| 4 | 1 | 2 | 3 |
| 2 | 3 | 4 | 1 |
| 1 | 4 | 3 | 2 |

Lösung des Sudokus

|  |  |  |  |
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Gegebenes Sudoku

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