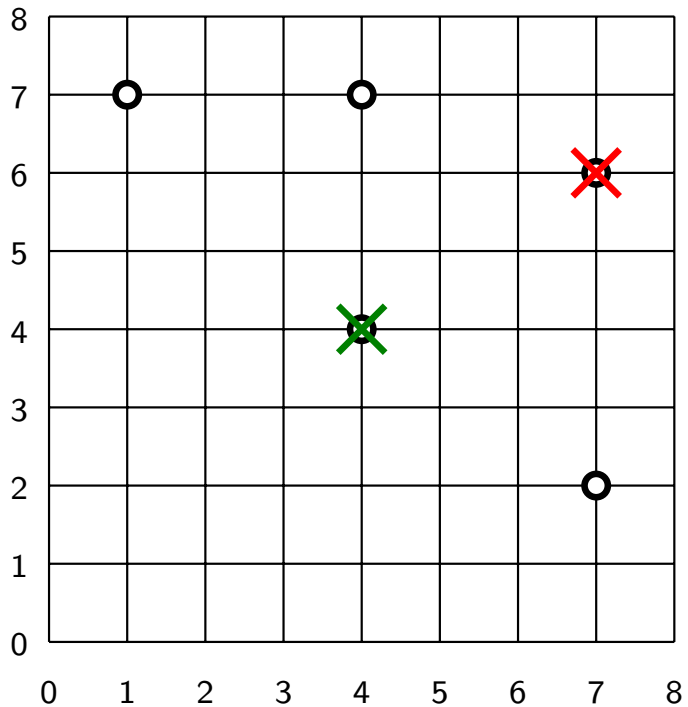
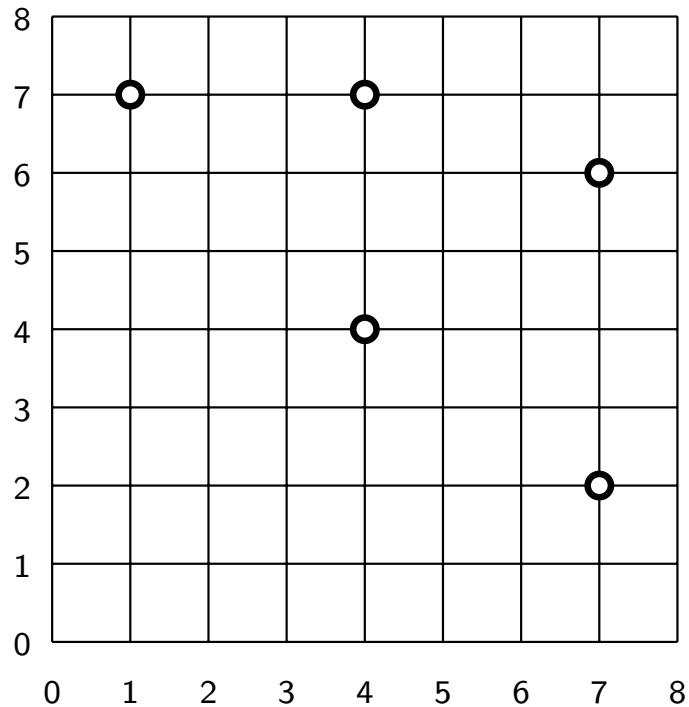
k-Means Clustering

Übungen (neu)

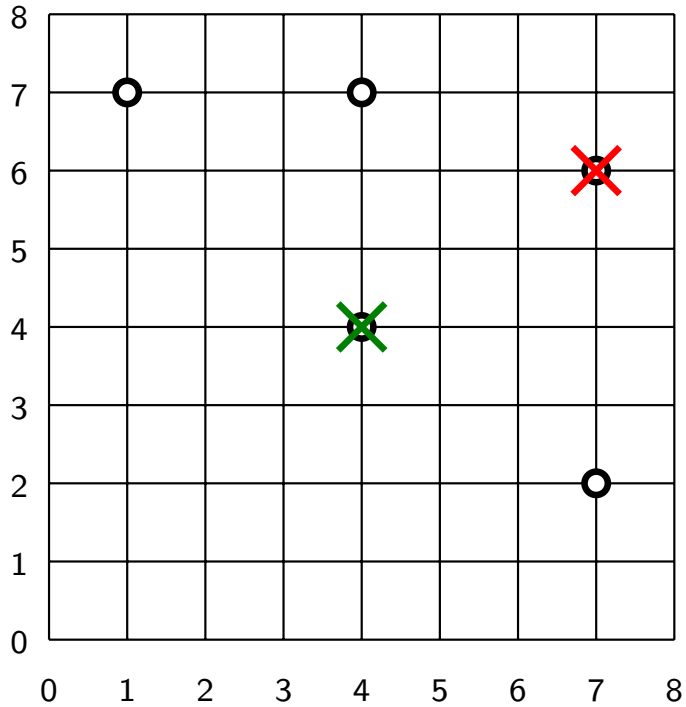
Aufgabe 1

Zeige schrittweise, wie das k-Means-Verfahren die Punkte für die anfänglich gegebenen Clusterzentren (Kreuze) clustert.

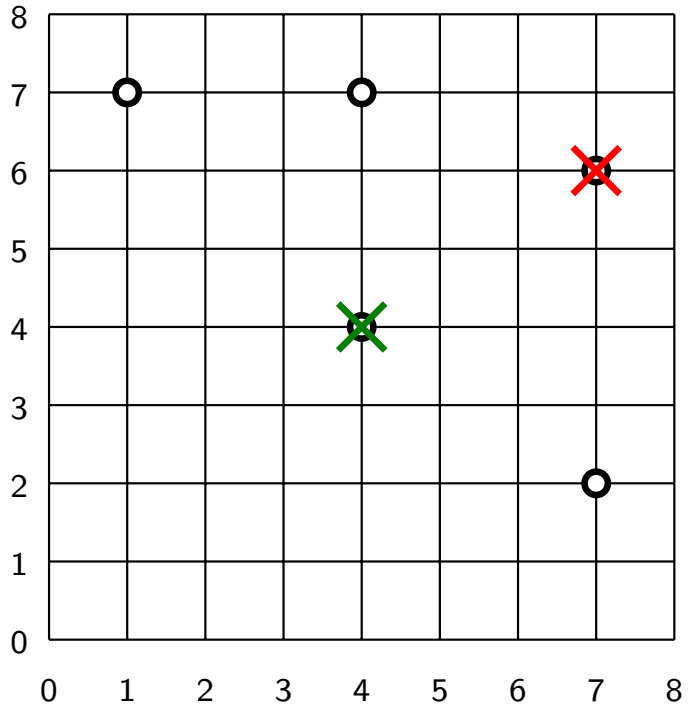


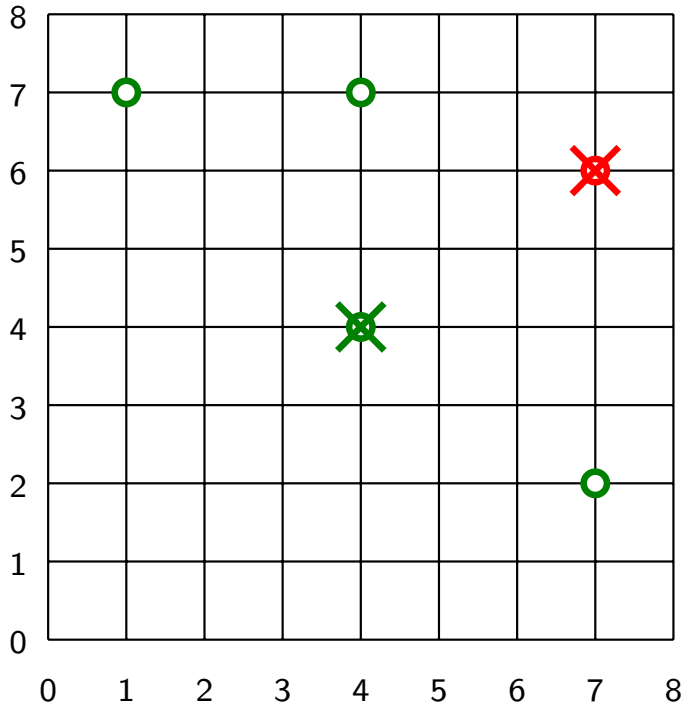


Aufgabe 1 (Iteration 0)

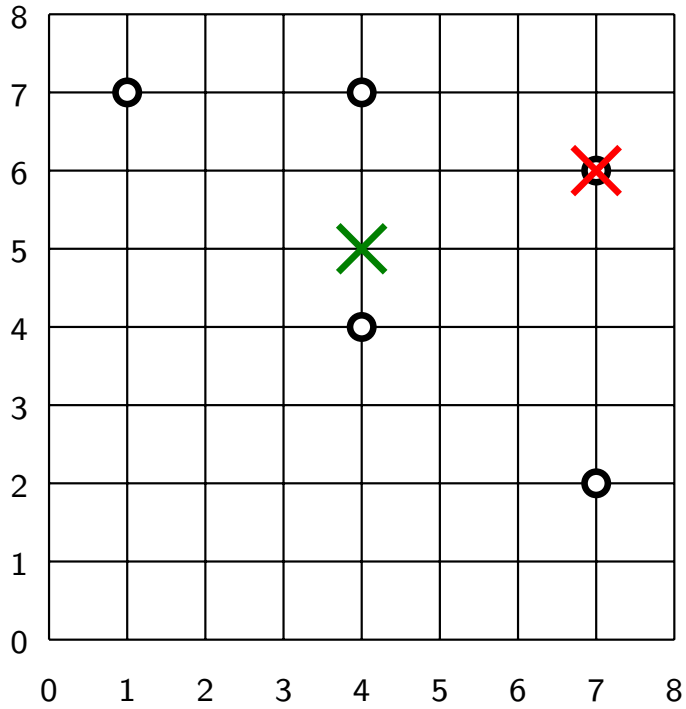


Aufgabe 1 (Iteration 0)

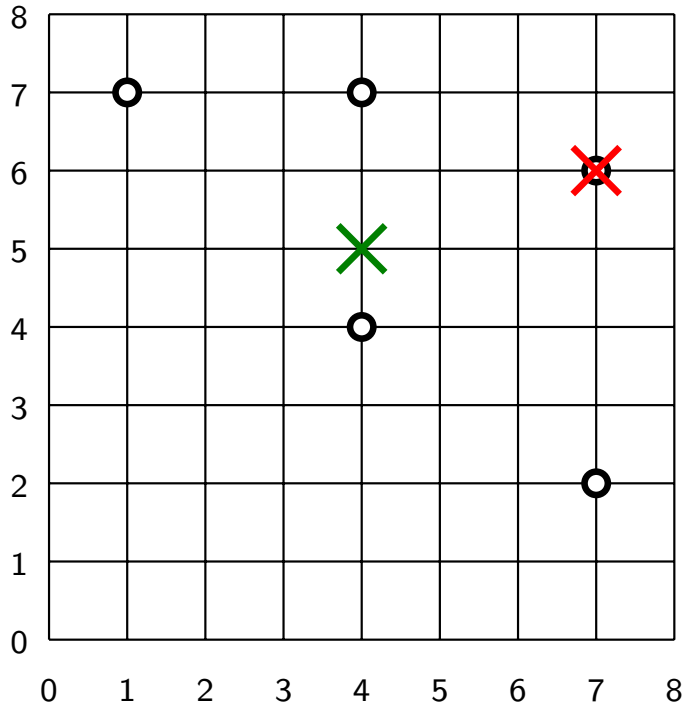


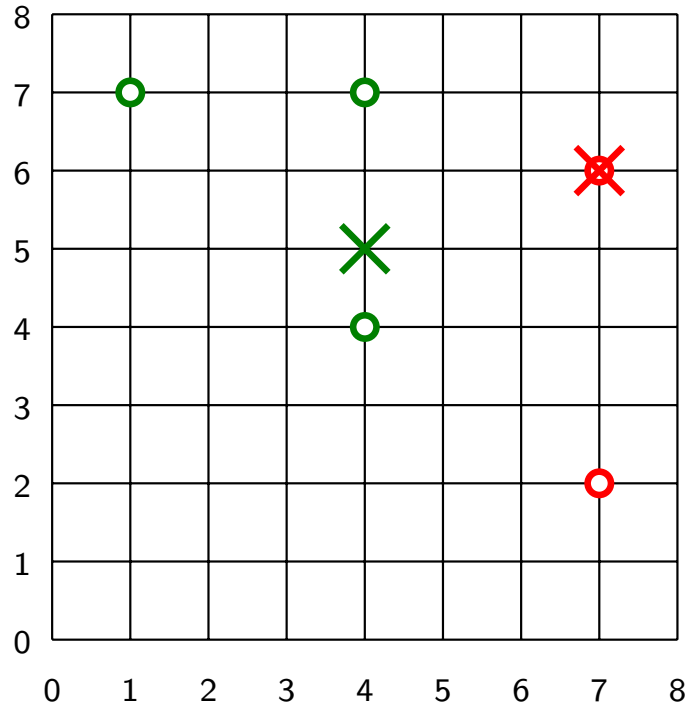


Aufgabe 1 (Iteration 1)

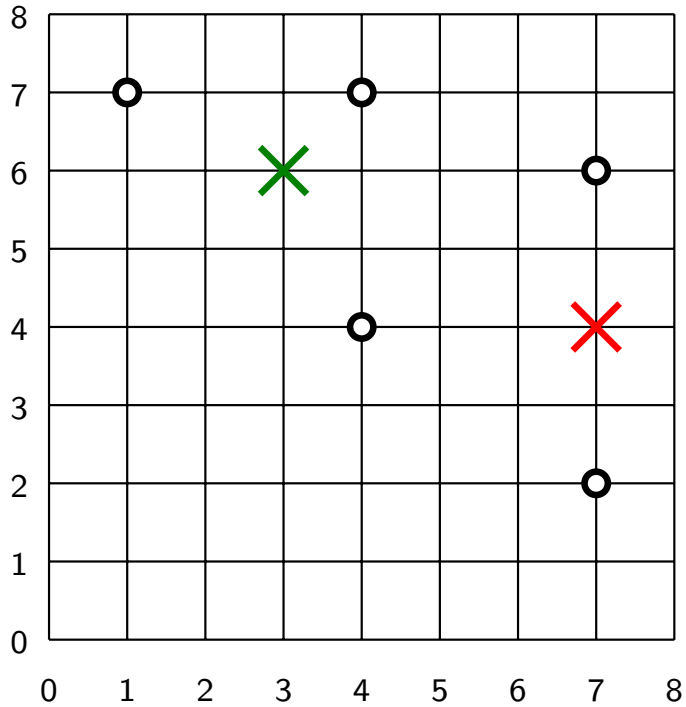


Aufgabe 1 (Iteration 1)

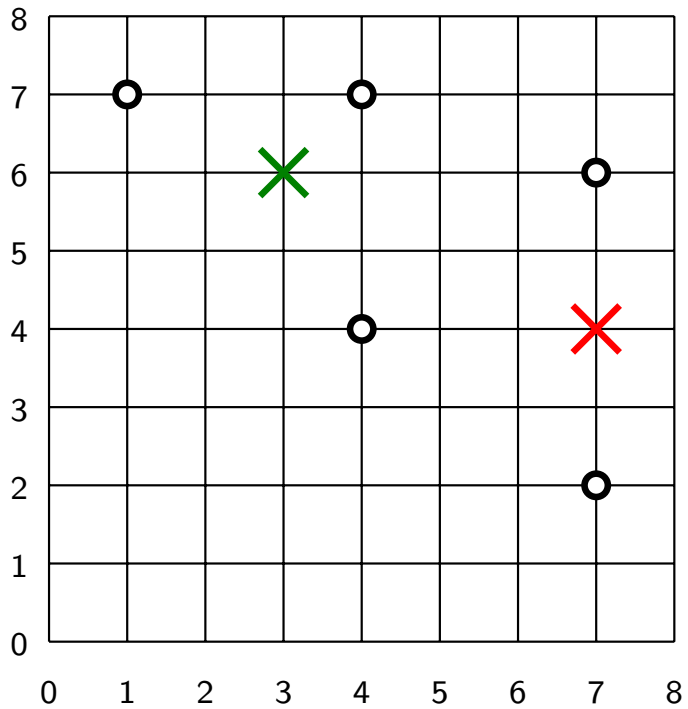


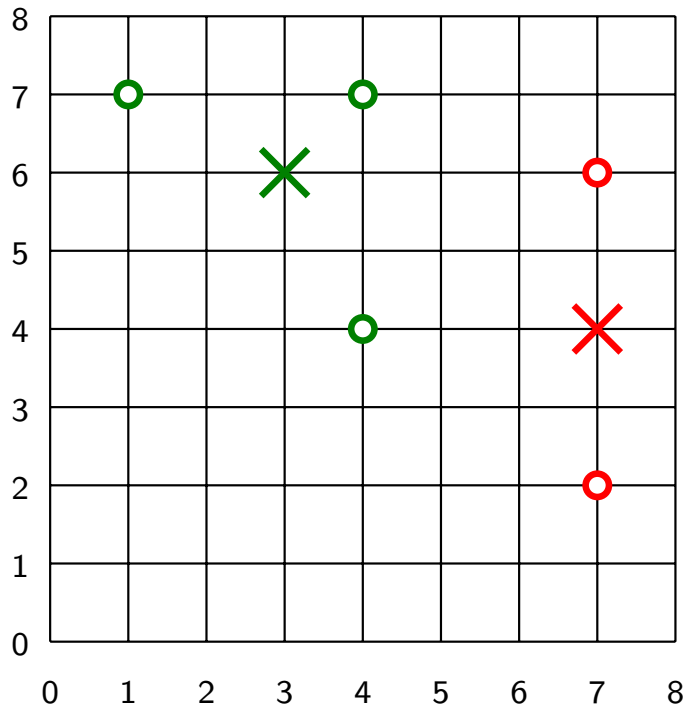


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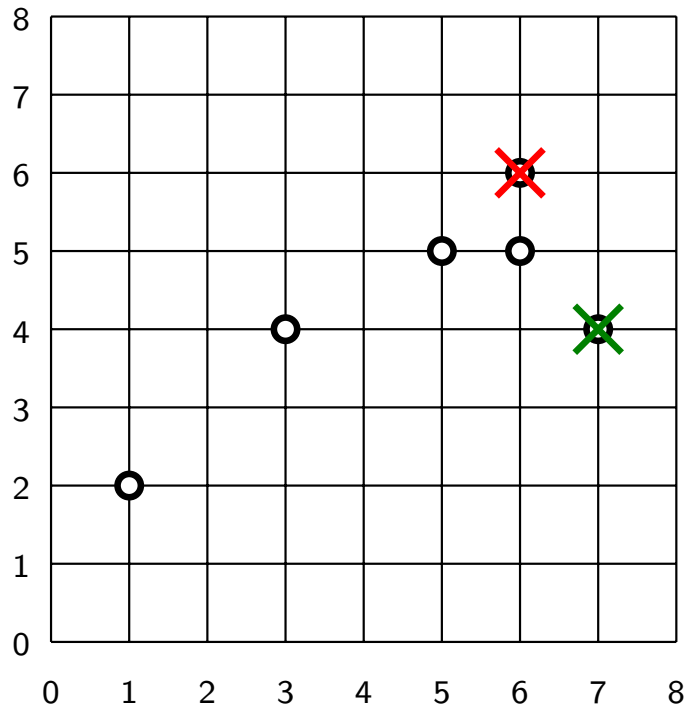
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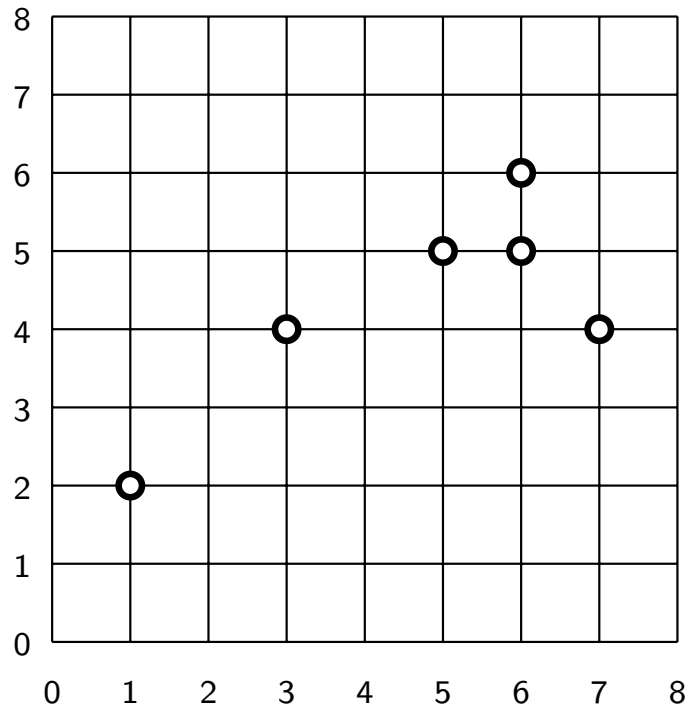




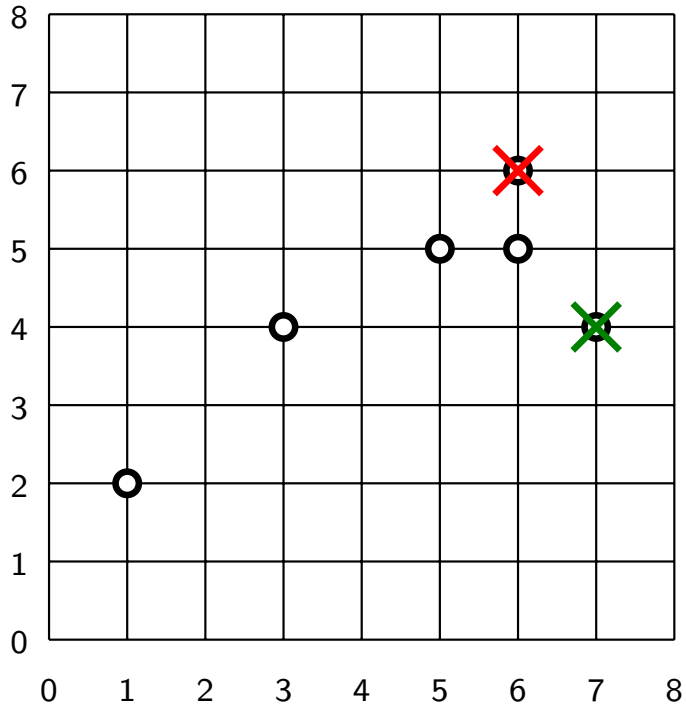
Aufgabe 2

Zeige schrittweise, wie das k-Means-Verfahren die Punkte für die anfänglich gegebenen Clusterzentren (Kreuze) clustert.

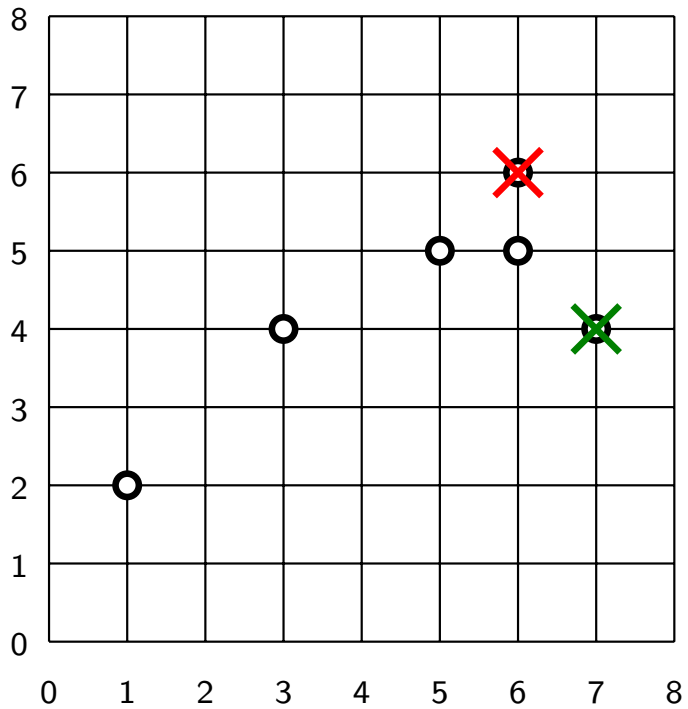


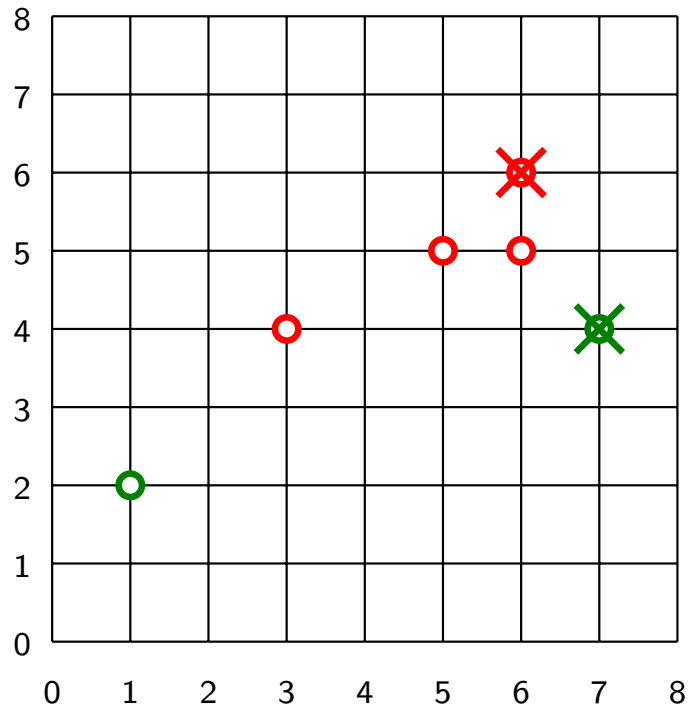


Aufgabe 2 (Iteration 0)

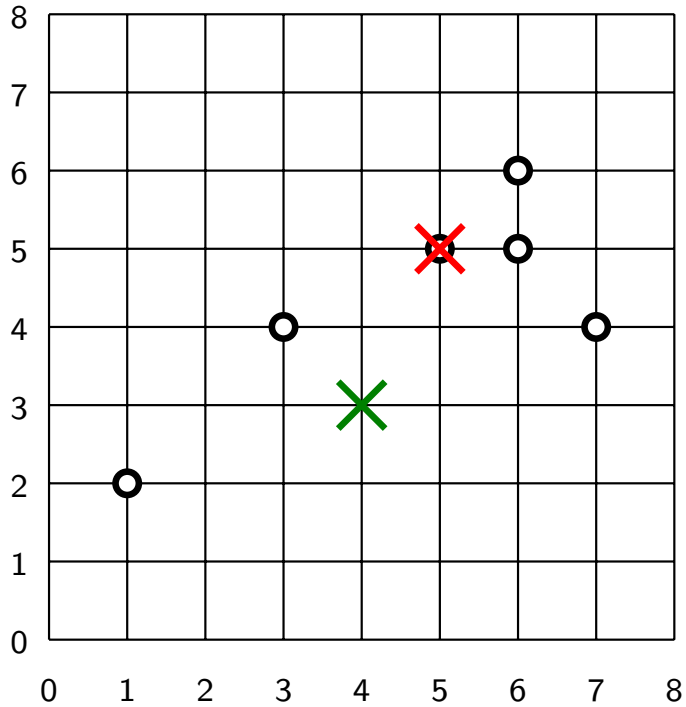


Aufgabe 2 (Iteration 0)

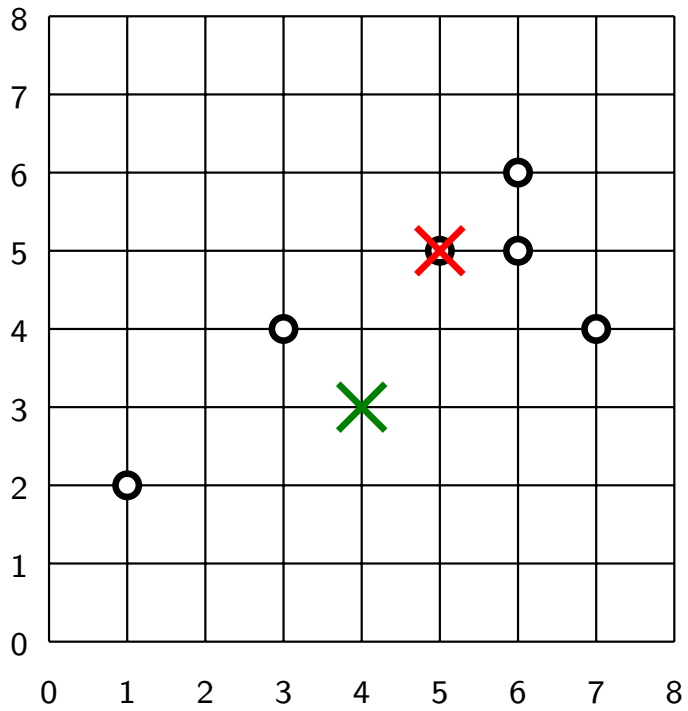


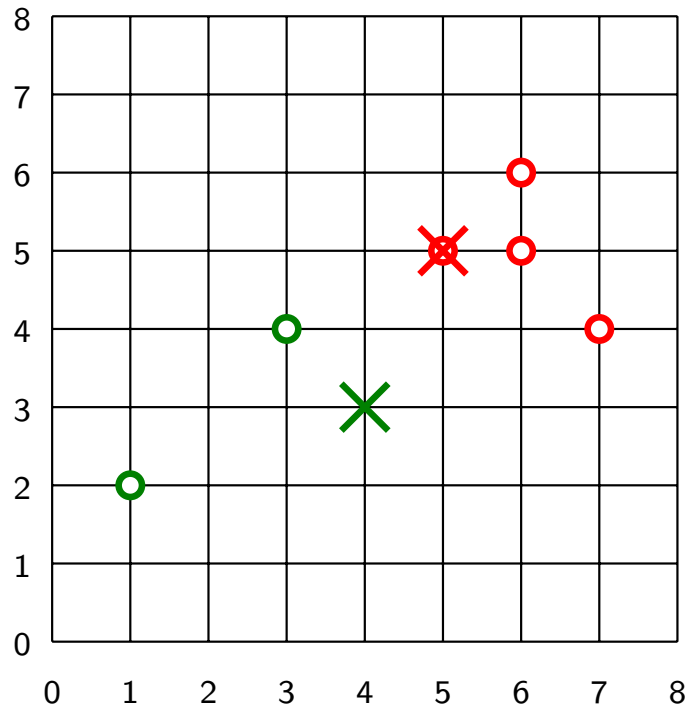


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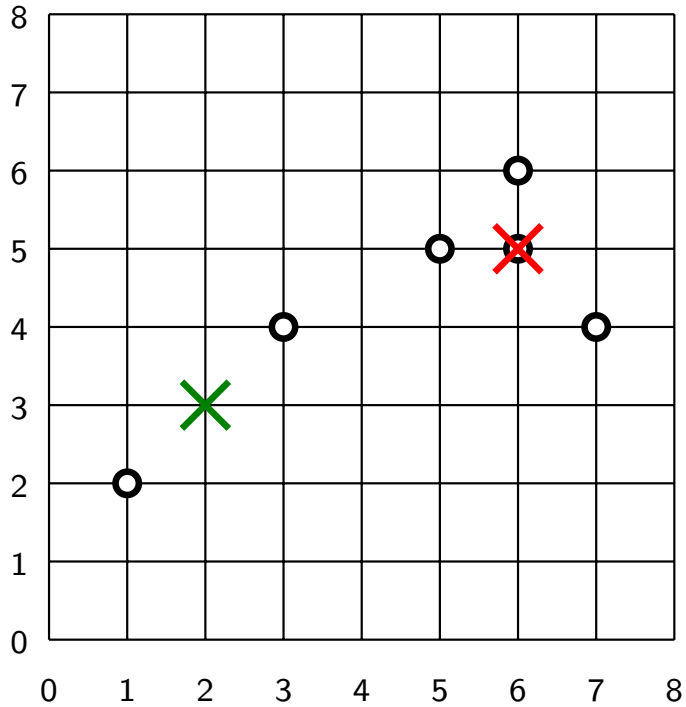


Aufgabe 2 (Iteration 1)

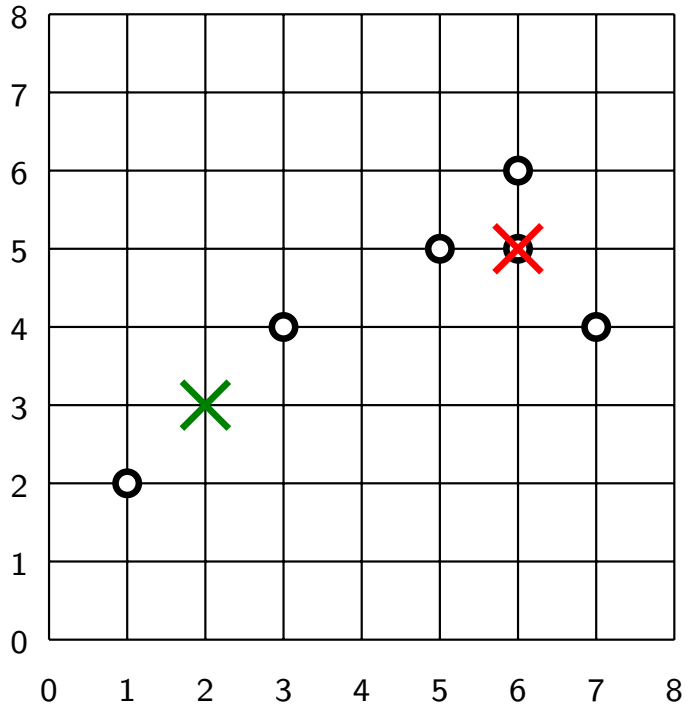


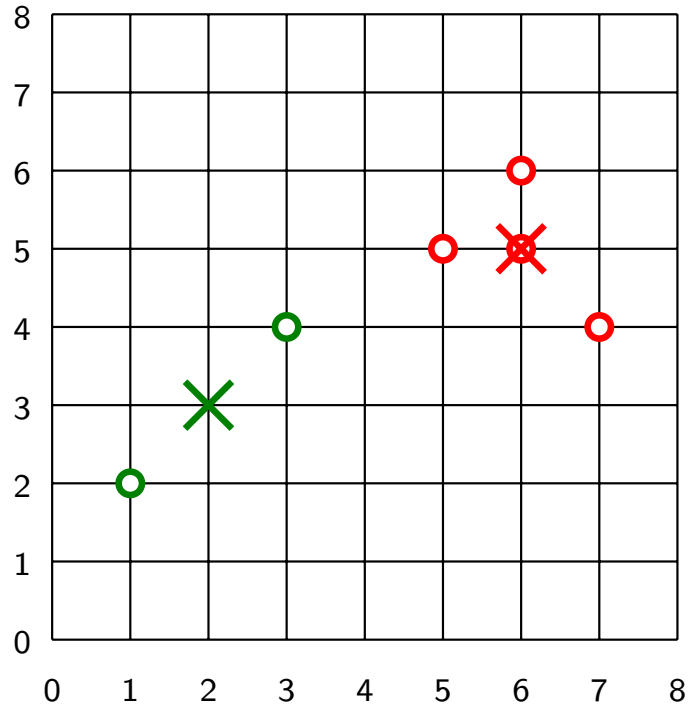


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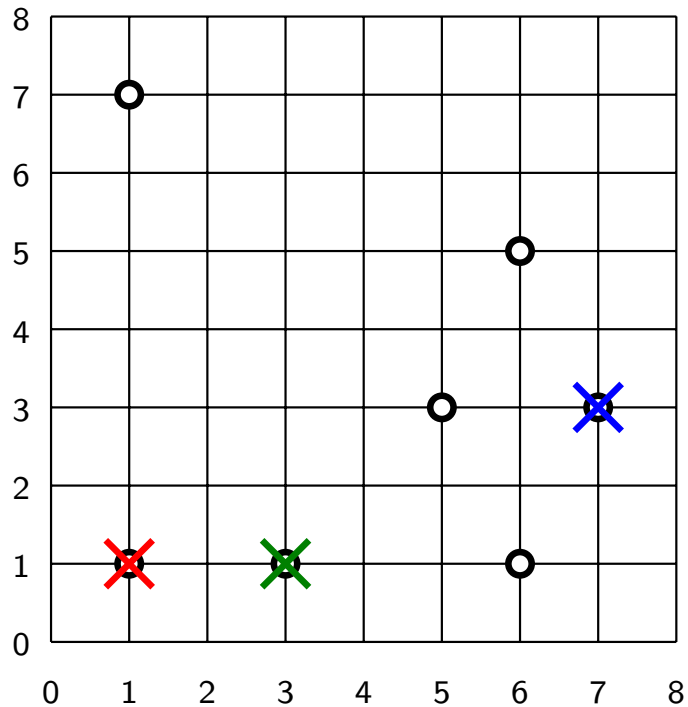
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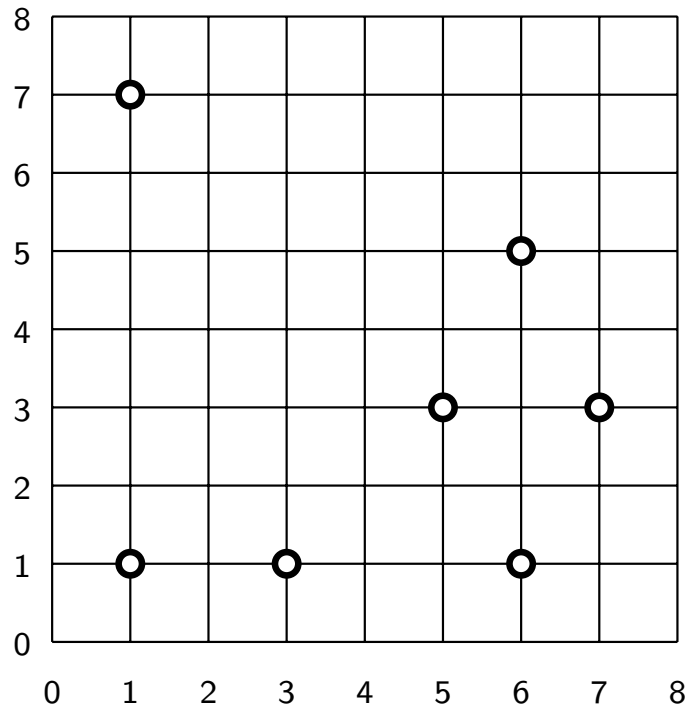




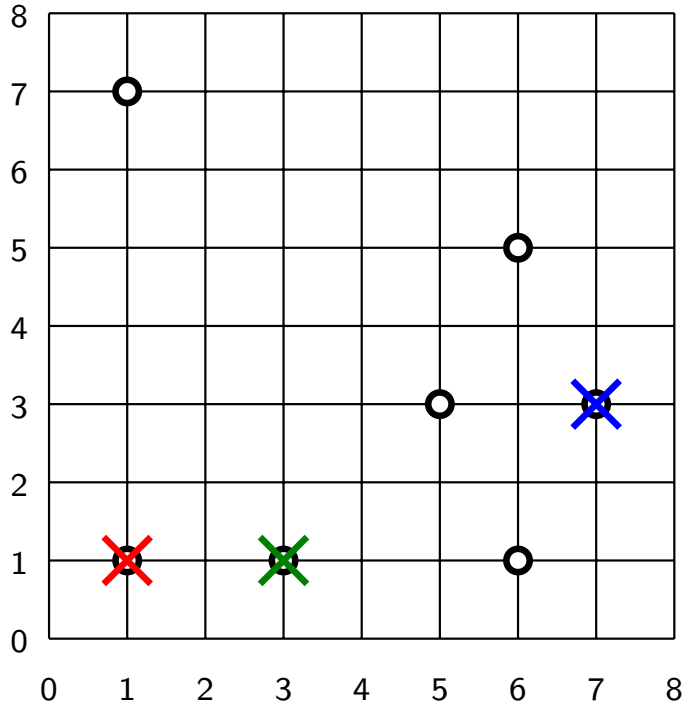
Aufgabe 3

Zeige schrittweise, wie das k-Means-Verfahren die Punkte für die anfänglich gegebenen Clusterzentren (Kreuze) clustert.

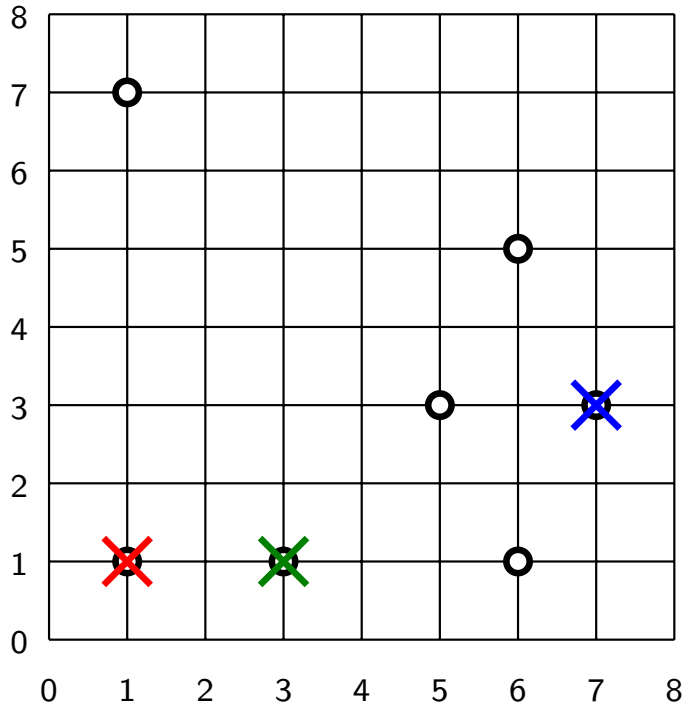


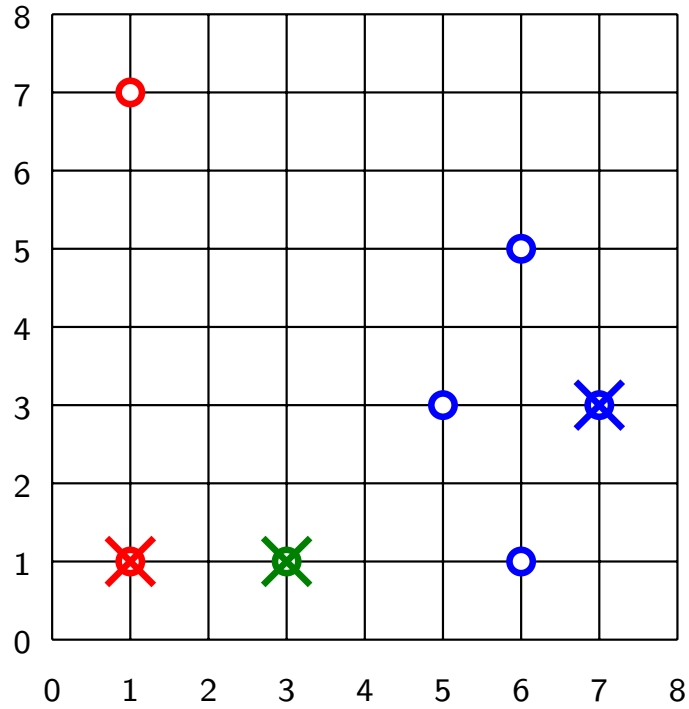


Aufgabe 3 (Iteration 0)

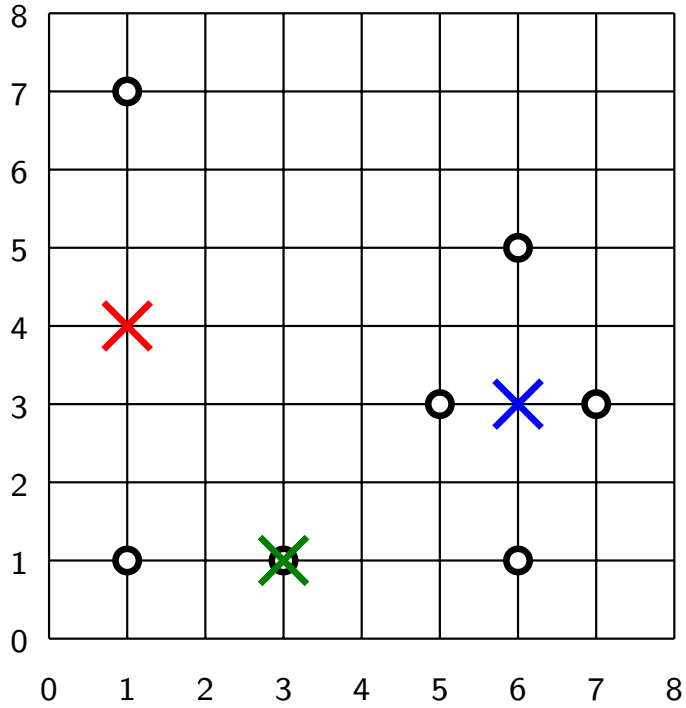


Aufgabe 3 (Iteration 0)

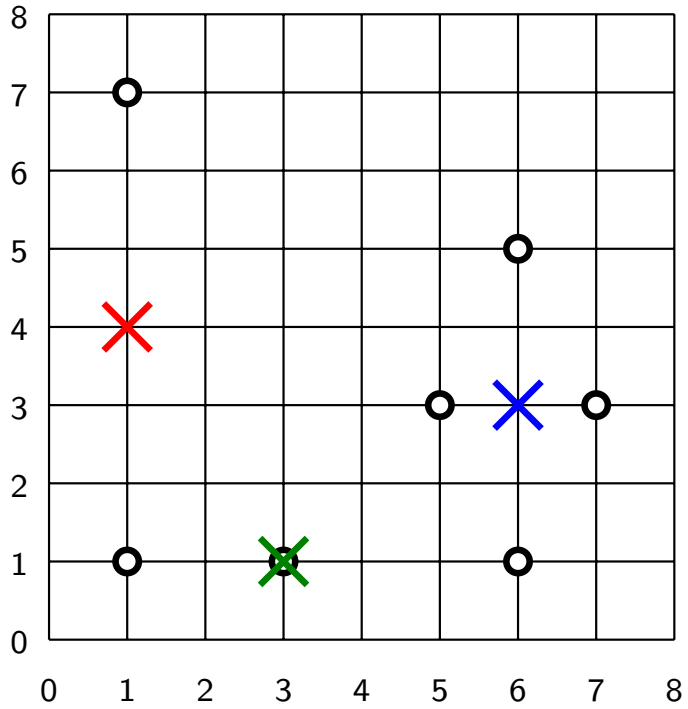


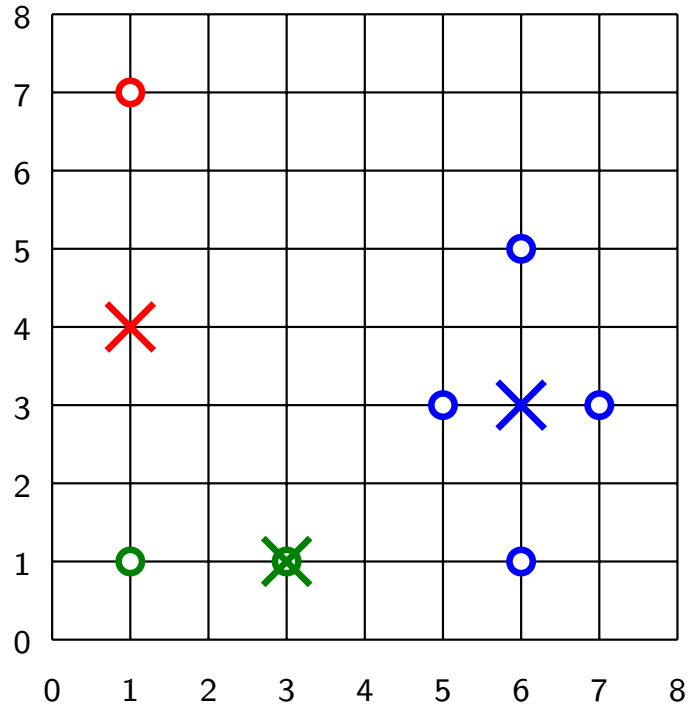


Aufgabe 3 (Iteration 1)

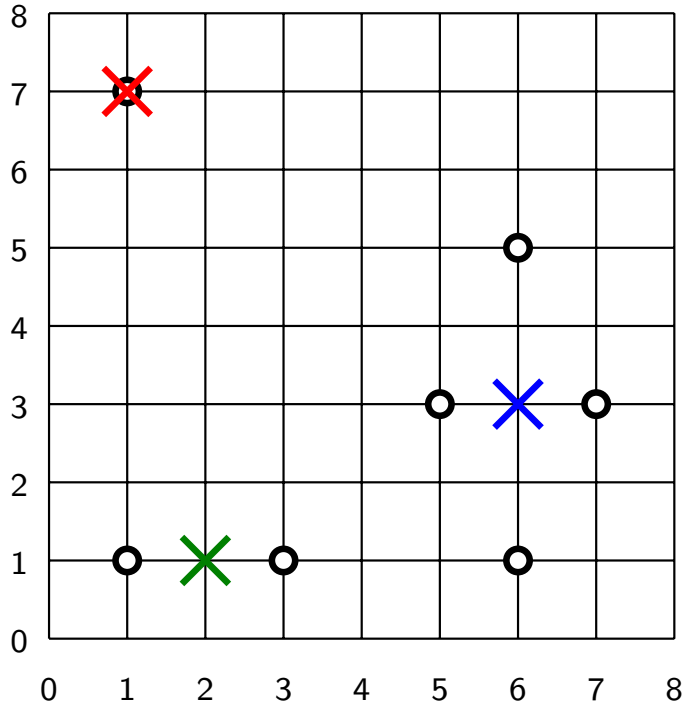


Aufgabe 3 (Iteration 1)

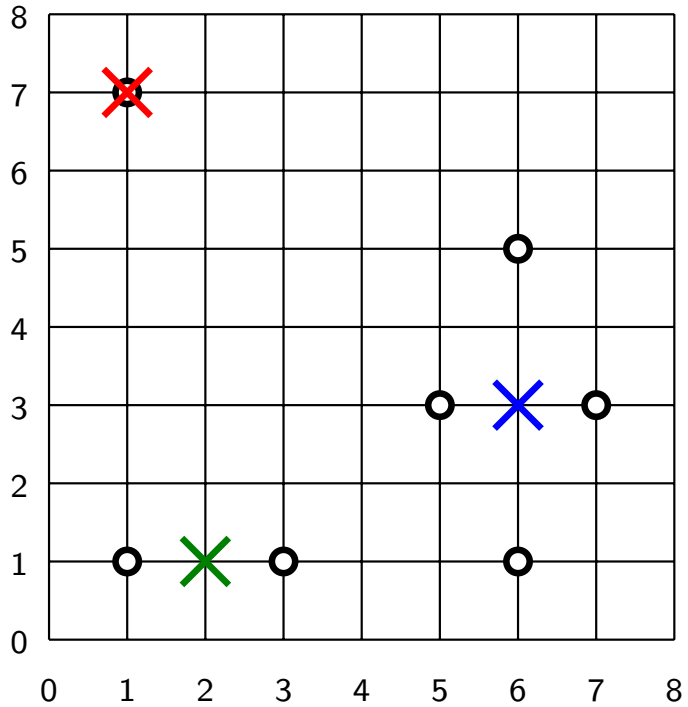


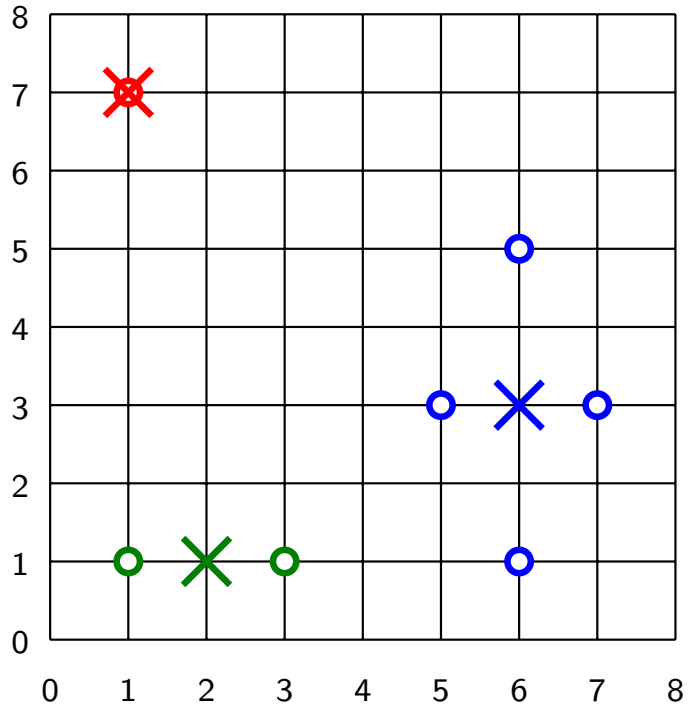


Aufgabe 3 (Iteration 2)



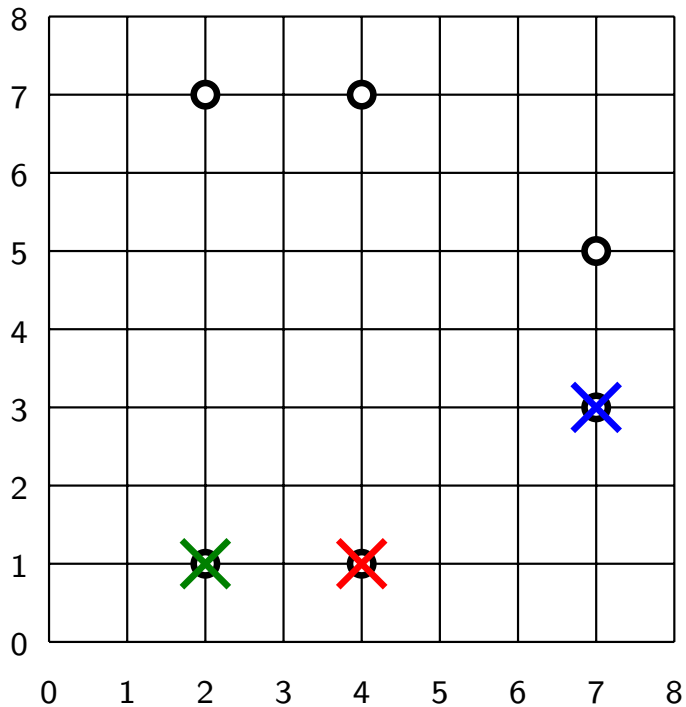
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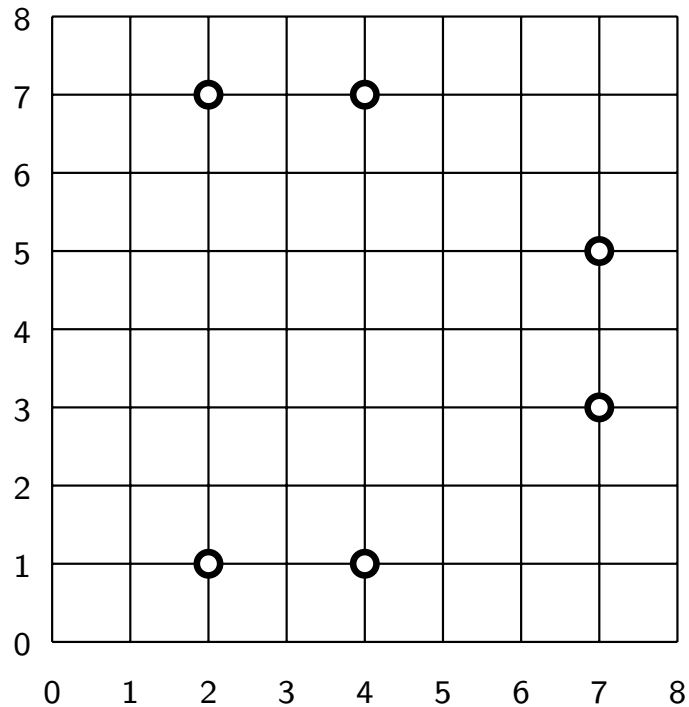




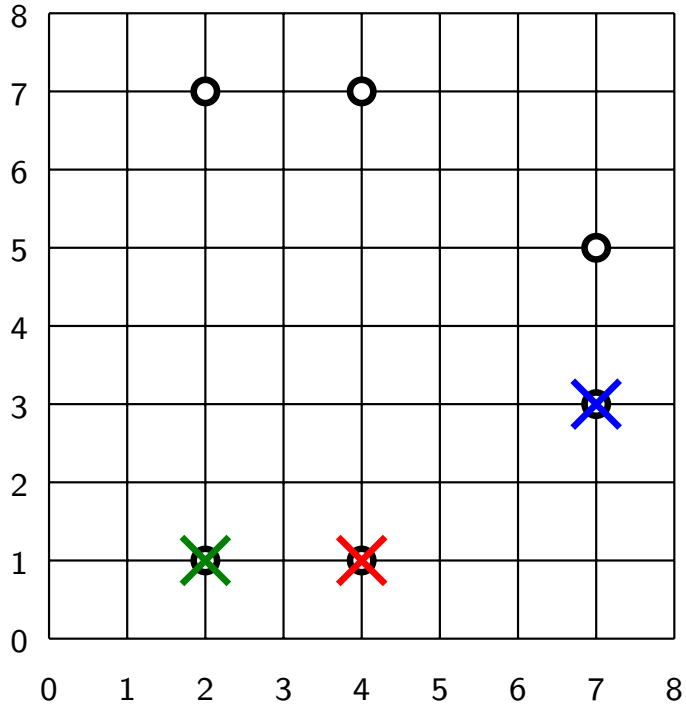
Aufgabe 4

Zeige schrittweise, wie das k-Means-Verfahren die Punkte für die anfänglich gegebenen Clusterzentren (Kreuze) clustert.

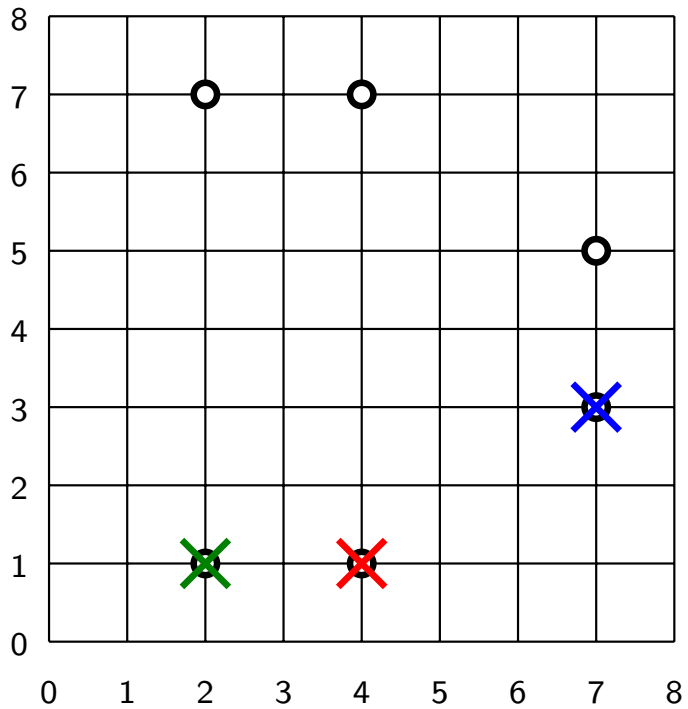


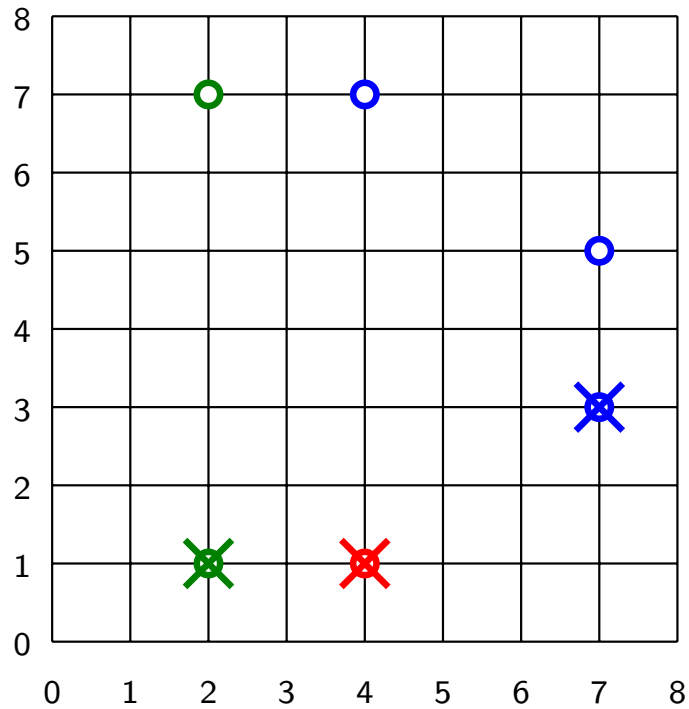


Aufgabe 4 (Iteration 0)

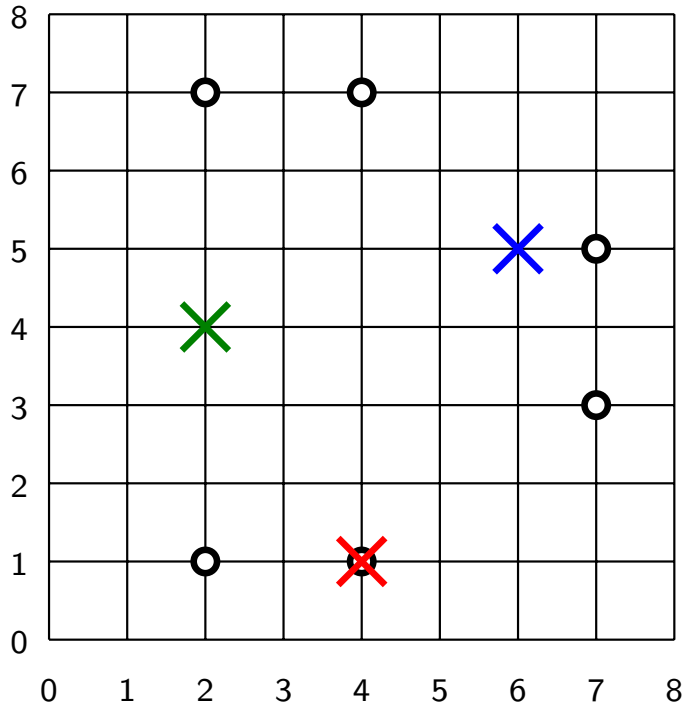


Aufgabe 4 (Iteration 0)

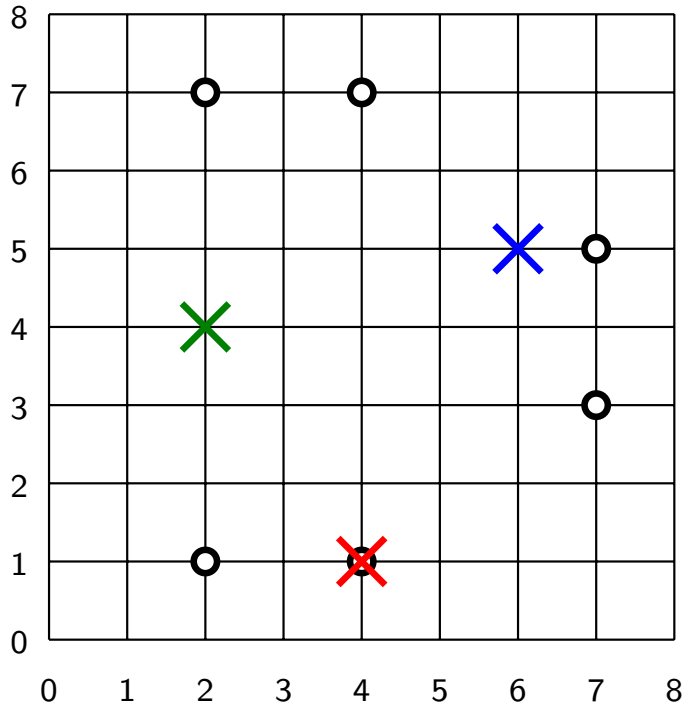


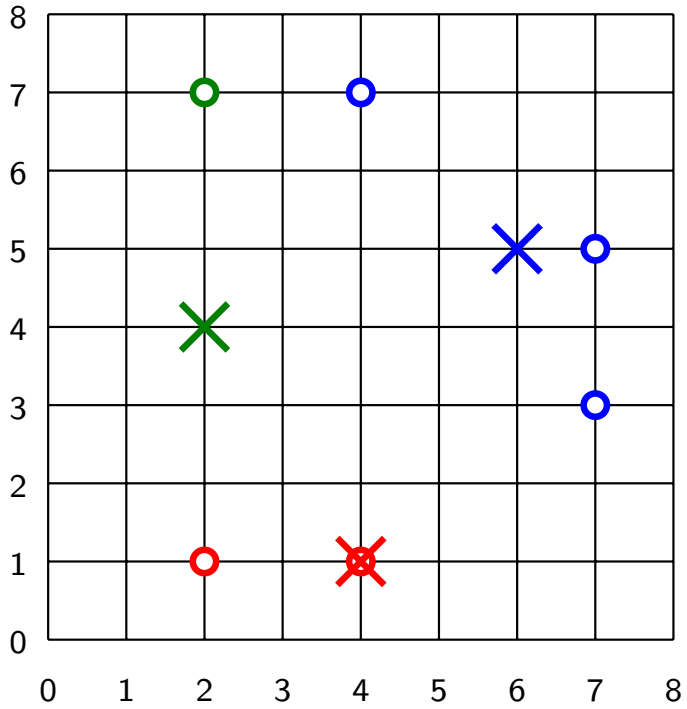


Aufgabe 4 (Iteration 1)

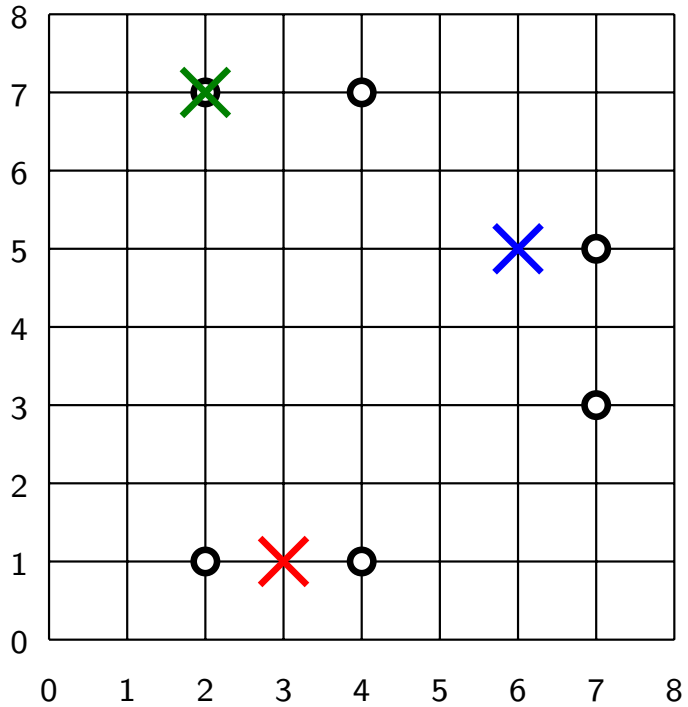


Aufgabe 4 (Iteration 1)

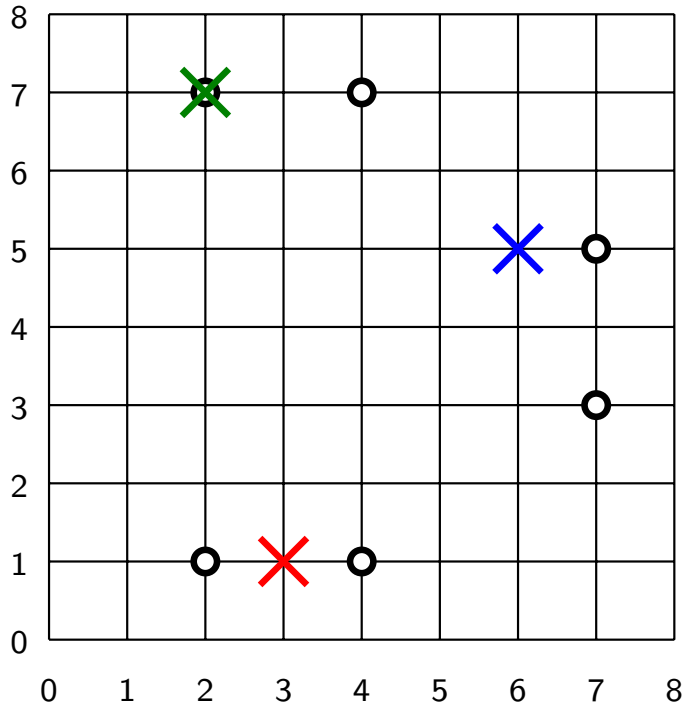


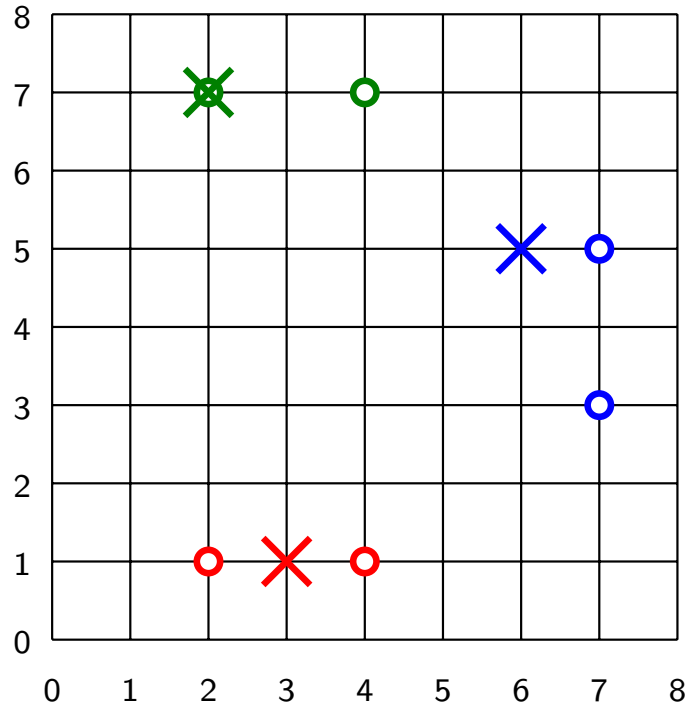


Aufgabe 4 (Iteration 2)

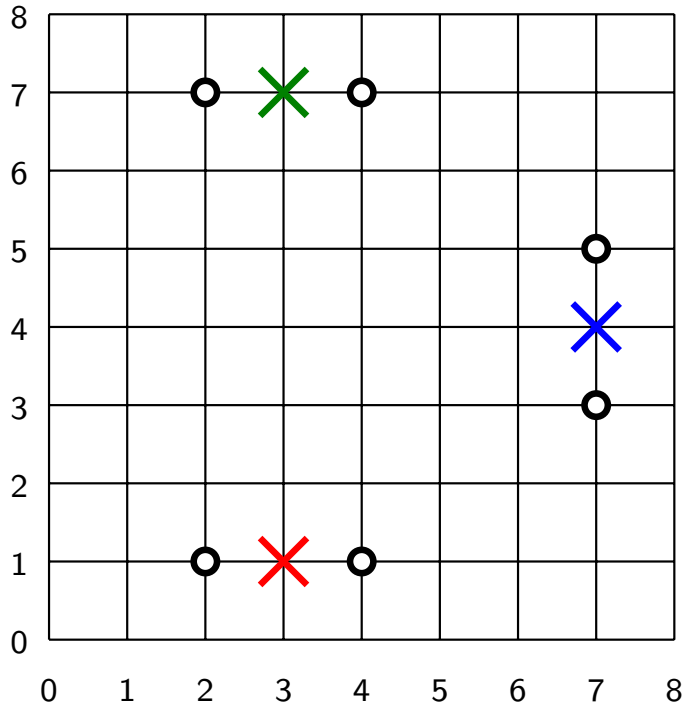


Aufgabe 4 (Iteration 2)





Aufgabe 4 (Iteration 3)



Aufgabe 4 (Iteration 3)

