Scientific computing: Project 4 part 2

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Those results where obtained for the parametres: Dp=1, Dq=8, C=4.5, dx=dy=1 and and p and q discretized as a 40X40 grid. Additioally we implemented Neumann conditions i.e $\hat{n}\vec{\nabla} = 0$.

(a) p

(b) q
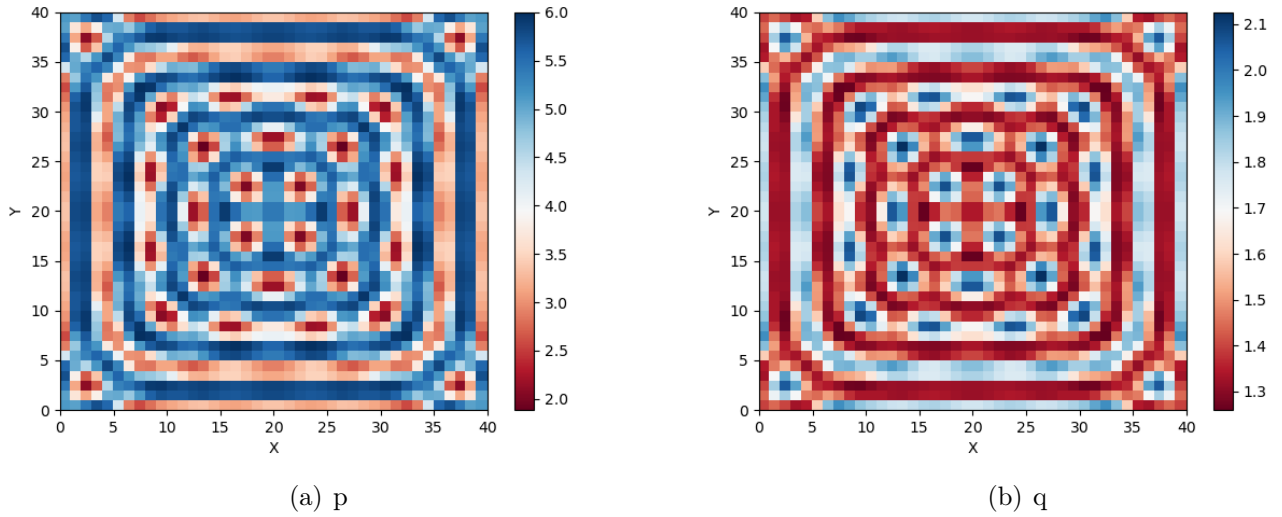
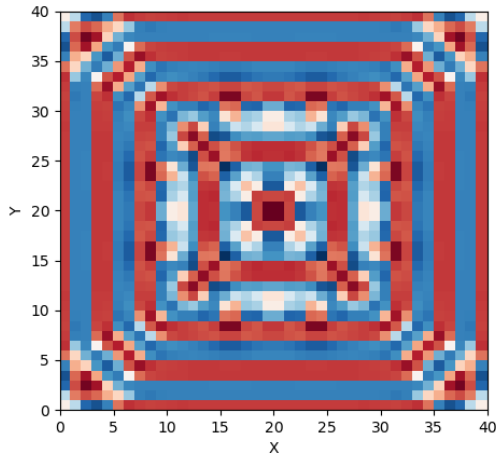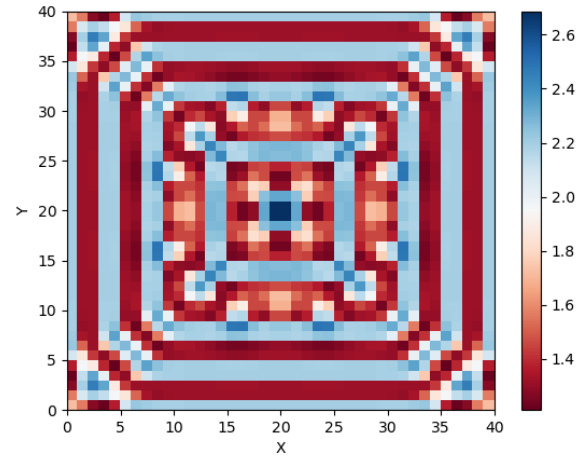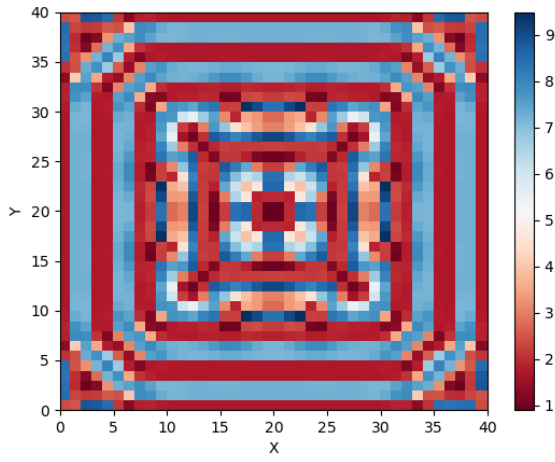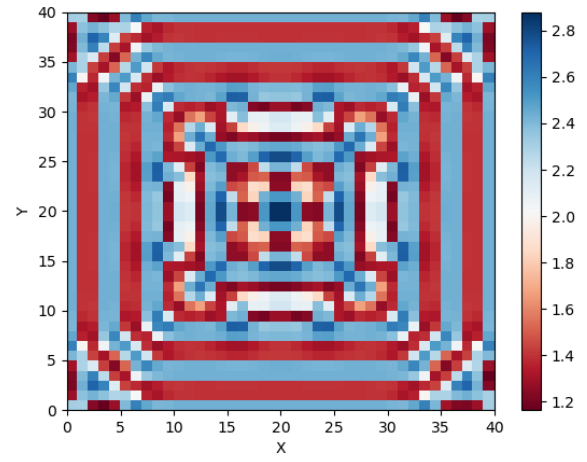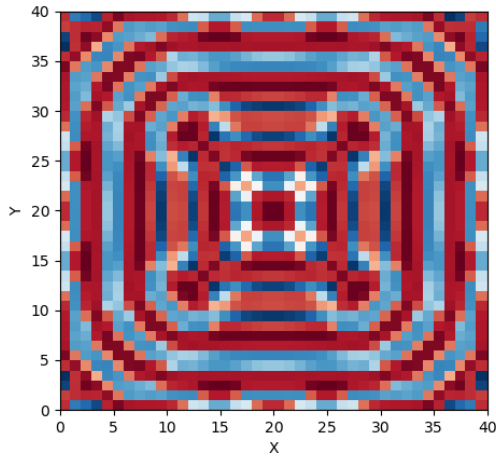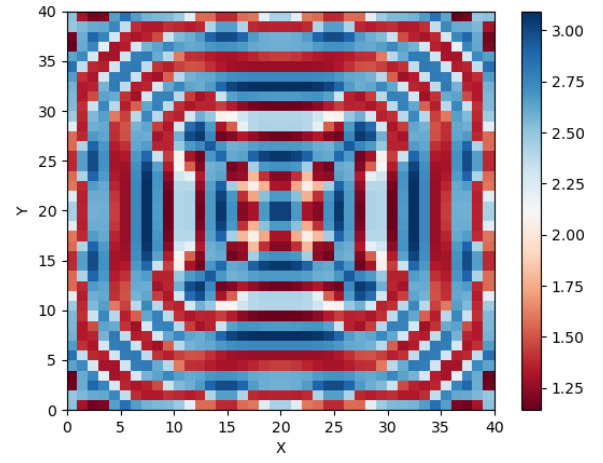Figure 1: K=7

(a) p

(b) q

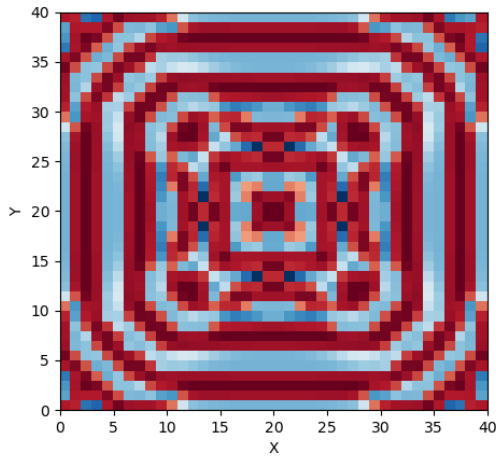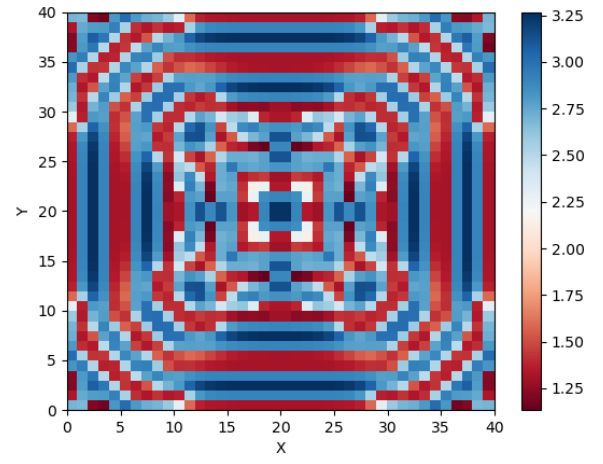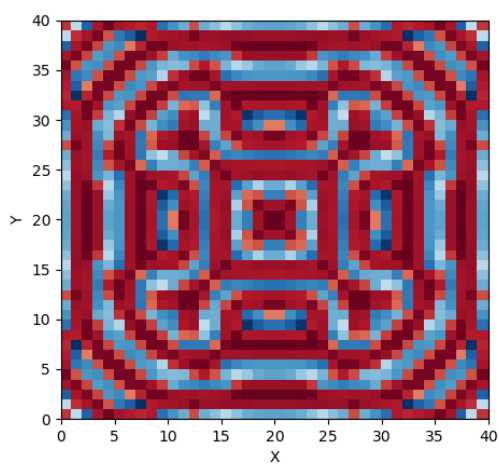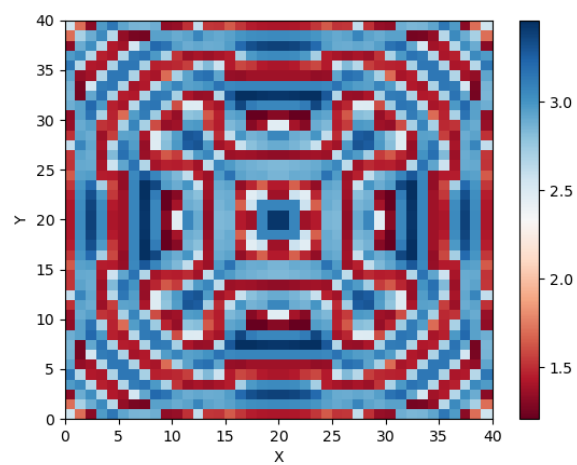Figure 2: K=8

(a) p

(b) q

Figure 3: K=9

(a) p

(b) q

Figure 4: K=10

(a) p

(b) q

Figure 5: K=11

3

(a) p

(b) q

Figure 6: K=12