Outputs:

Data matrix

[[ 10.65 20.65 9.83 24.57]

[ 21.87 31.87 15.44 44.77]

[ 26.36 36.36 17.68 52.85]

[ 30.26 40.26 19.63 59.87]

[ 34.5 44.5 21.75 67.5 ]

[ 31.97 41.97 20.49 62.95]

[ 22.24 32.24 15.62 45.43]

[ 38.91 48.91 23.96 75.44]

[ 18.9 28.9 13.95 39.42]

[ 28.61 38.61 18.81 56.9 ]

[ 18.1 28.1 13.55 37.98]

[ 35.04 45.04 22.02 68.47]

[ 22.4 32.4 15.7 45.72]

[ 29.44 39.44 19.22 58.39]

[ 25.14 35.14 17.07 50.65]

[ 34.56 44.56 21.78 67.61]

[ 28.38 38.38 18.69 56.48]

[ 10.89 20.89 9.95 25. ]

[ 35.27 45.27 22.14 68.89]

[ 39.1 49.2 24.08 75.83]]

M matrix

[[ 9.83 24.57 1. 0. 0. 0. ]

[ 0. 0. 0. 9.83 24.57 1. ]

[ 15.44 44.77 1. 0. 0. 0. ]

[ 0. 0. 0. 15.44 44.77 1. ]

[ 17.68 52.85 1. 0. 0. 0. ]

[ 0. 0. 0. 17.68 52.85 1. ]

[ 19.63 59.87 1. 0. 0. 0. ]

[ 0. 0. 0. 19.63 59.87 1. ]

[ 21.75 67.5 1. 0. 0. 0. ]

[ 0. 0. 0. 21.75 67.5 1. ]

[ 20.49 62.95 1. 0. 0. 0. ]

[ 0. 0. 0. 20.49 62.95 1. ]

[ 15.62 45.43 1. 0. 0. 0. ]

[ 0. 0. 0. 15.62 45.43 1. ]

[ 23.96 75.44 1. 0. 0. 0. ]

[ 0. 0. 0. 23.96 75.44 1. ]

[ 13.95 39.42 1. 0. 0. 0. ]

[ 0. 0. 0. 13.95 39.42 1. ]

[ 18.81 56.9 1. 0. 0. 0. ]

[ 0. 0. 0. 18.81 56.9 1. ]

[ 13.55 37.98 1. 0. 0. 0. ]

[ 0. 0. 0. 13.55 37.98 1. ]

[ 22.02 68.47 1. 0. 0. 0. ]

[ 0. 0. 0. 22.02 68.47 1. ]

[ 15.7 45.72 1. 0. 0. 0. ]

[ 0. 0. 0. 15.7 45.72 1. ]

[ 19.22 58.39 1. 0. 0. 0. ]

[ 0. 0. 0. 19.22 58.39 1. ]

[ 17.07 50.65 1. 0. 0. 0. ]

[ 0. 0. 0. 17.07 50.65 1. ]

[ 21.78 67.61 1. 0. 0. 0. ]

[ 0. 0. 0. 21.78 67.61 1. ]

[ 18.69 56.48 1. 0. 0. 0. ]

[ 0. 0. 0. 18.69 56.48 1. ]

[ 9.95 25. 1. 0. 0. 0. ]

[ 0. 0. 0. 9.95 25. 1. ]

[ 22.14 68.89 1. 0. 0. 0. ]

[ 0. 0. 0. 22.14 68.89 1. ]

[ 24.08 75.83 1. 0. 0. 0. ]

[ 0. 0. 0. 24.08 75.83 1. ]]

b matrix

[[ 10.65]

[ 20.65]

[ 21.87]

[ 31.87]

[ 26.36]

[ 36.36]

[ 30.26]

[ 40.26]

[ 34.5 ]

[ 44.5 ]

[ 31.97]

[ 41.97]

[ 22.24]

[ 32.24]

[ 38.91]

[ 48.91]

[ 18.9 ]

[ 28.9 ]

[ 28.61]

[ 38.61]

[ 18.1 ]

[ 28.1 ]

[ 35.04]

[ 45.04]

[ 22.4 ]

[ 32.4 ]

[ 29.44]

[ 39.44]

[ 25.14]

[ 35.14]

[ 34.56]

[ 44.56]

[ 28.38]

[ 38.38]

[ 10.89]

[ 20.89]

[ 35.27]

[ 45.27]

[ 39.1 ]

[ 49.2 ]]

a

[[-1.30752174]

[ 0.91865253]

[ 0.92976396]

[ 3.30057324]

[-0.36107872]

[-2.91679196]]

M\*a

[[ 10.64811802]

[ 20.65613889]

[ 21.86970225]

[ 31.87856467]

[ 26.36356602]

[ 36.35433269]

[ 30.26283942]

[ 40.2556779 ]

[ 34.50021216]

[ 44.49786256]

[ 31.96782053]

[ 41.98204844]

[ 22.24065901]

[ 32.2343559 ]

[ 38.90469024]

[ 48.9251644 ]

[ 18.90311858]

[ 28.89248168]

[ 28.60660922]

[ 38.62161164]

[ 18.10326763]

[ 28.09220574]

[ 35.03827425]

[ 45.03877098]

[ 22.4024665 ]

[ 32.39368893]

[ 29.43931758]

[ 39.43683938]

[ 25.14011871]

[ 35.13535619]

[ 34.56203829]

[ 44.55716109]

[ 28.37767776]

[ 38.37719591]

[ 10.886236 ]

[ 20.89694383]

[ 35.26720571]

[ 45.2831867 ]

[ 39.10606212]

[ 49.18041249]]

Sum-squared error

0.00168763294955

Sum-squared error from la.lstsq

[[ 0.00168763]]