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Here we want to find the loss to squares sol = for the fit purameters when very QR factorization, so A = QR

$$\Rightarrow (QR)^T N^{-1} (QR)^M = (QR)^T N^{-1} J$$

First assume N=1:

$$= R^{-1}(R^{T})^{-1}R^{T}Q^{T}d$$

$$\Rightarrow m = R^-Q^T d$$