1. minimize $\lambda (a_i^T x - b_i)^2 + \sum_{i=1}^{m} (a_i^T x - b_i)^2 = (a_i^T x - b_i)^2 + \sum_{i=1}^{m} (a_i^T x - b_i)^2$

 $\begin{array}{c|c} & & & \\ & & & \\ & & & \\ \hline & &$

SA([A] JAI a] [JAI a] [JAI a] [JAI b]

= (ATA+ (1-1) 9,9,7) - [A+b+ (1-1) 9,4]

ATA X = ATS approximation

(ATA+(A-1)a,a,T) &(A) = ATb+(A-1)a,b, = ATAX+(A-1)a,b,

ATA & + (1-1) (b,-a, T x)

(-1 (1-1) a, T (ATA)-1a,