Let be a_i and b_j Vectors and X,Y Matrixes Maximize $\Sigma \operatorname{diag}(XY)$ s.t. $\Sigma_i^p(X^2)_{i,j} \leq a_i$ $\Sigma_j^q(X_{i,j})^2 \leq b_j$ $\Sigma_i^p(Y^2)_{i,j} \leq a_i$ $\Sigma_j^q(Y_{i,j})^2 \leq b_j$