$$V[\hat{\beta}] = V[CY] = CV[Y]C^{T}$$

$$V[\hat{\beta}] = CC^{T}G^{2}$$

$$V[\hat{\beta}] = ((x^{T}x)^{T}x^{T}+0)((x^{T}x)^{T}x^{T}+0)^{T}G^{2}$$

$$V[\hat{\beta}] = ((x^{T}x)^{T}x^{T}+0)(x(x^{T}x)^{T}+0^{T})G^{2}$$

$$V[\hat{\beta}] = ((x^{T}x)^{T}x^{T}+0)(x(x^{T}x)^{T}+0^{T})G^{2}$$

$$V[\hat{\beta}] = (x^{T}x)^{T}G^{2} + DD^{T}G^{2}$$

V[ß]=V[ß]>+6200T

VEBJ

V[\beta] > V[\beta\_{LS}]

In other wards, any other

unbiased estimator

must have a large

variance than the best

square estimator \beta\_{LS}