when sd= 2, cor(mean,SD) = -0.907when sd= 4, cor(mean,SD) = -0.90925 20 S_2 10 \overline{X}_1 \overline{X}_2 when sd= 6, cor(mean,SD) = -0.906when sd= 8, cor(mean,SD) = -0.9180 9 40 $^{\circ}_{4}$ 30 -10 -5 -15 -10 \overline{X}_3 \overline{X}_4