EPPS 6313 : Recitation Session #8

Nov. 14. 2012

Questions?

- You learned :

- Covariance

- Correlation

- Partial Correlation

- Anything else?

Problem 1

Independent variable(X) is the number of cigarette the patients smoke a day, and dependent variable(Y) is Lung capacity.
Calculate covariance.

Cigarettes(x)	Lung Capacity(Y)
0	45
5	42
10	33
15	31
20	29

Problem 2

From the table in the Problem 1, calculate the bivariate correlation between two variables.
And construct correct the null hypothesis, and test it.

Problem 3

We have another variable(Z) which is age.
Suppose the correlation between X and Z is 0.3, and the correlation between Z and Y is -0.3
Compute $r_{xy.z}$