“Systems Analysis and Design” Online Course

Example of Homework 4 Assignment (“Homework Assignment” Learning Object)

1) Exercise # 1

Team A found 342 errors during the software development process prior to release. Team B found 184 errors. What additional measures would have to be made for projects A and B to determine which of the teams eliminated errors more efficiently? What metrics would you propose to help in making the determination? What historical and modern data might be helpful?

2) Exercise # 2

Compute the function point value for a project with the following information domain characteristics:
   - Number of user inputs: 32
   - Number of user outputs: 60
   - Number of user inquiries: 24
   - Number of files: 8
   - Number of external interfaces: 2

Assume that all complexity adjustment values are average.

3) Exercise # 3

A software development organization has DRE data for 15 projects over the past two years. The values collected are 0.81, 0.71, 0.87, 0.54, 0.71, 0.90, 0.82, 0.61, 0.84, 0.73, 0.88, 0.74, 0.86, 0.83.

Create mR and individual control charts to determine whether these data can be used to assess trends.