Tutorial Objectives:
- to develop further understanding of testing procedures
- to develop further understanding of cut over planning
- Work on Assignment 2 due in week 11

Tutorial Task:

Answer the following questions concerning implementation. Your tutor will then lead a discussion of these questions and related problems and issues.

a) For what is the programmer searching when they unit test a software program?
b) For what is the systems analyst searching when they unit test a software program?
c) Which approaches to testing is suitable for each of the above cases?
d) “Software error” is a general term. What are the specific reasons why a piece of software could be thought of as being in error.
e) What are the problems with waiting until all the various programs in a system have been written, and then testing them all together to ensure that they operate as an integrated whole?
f) Why is it more expensive to fix a program bug than to identify the design flaw which caused the bug?
g) Work on Assignment 2

The following questions will be attempted in week 12 when we have concluded the lectures on Implementation issues.

h) Implementing a system is more than loading executable code onto a disk and running it. What else is involved?
i) Discuss some of the issues associated with data conversion when a new software system replaces a legacy system.
j) The pilot site method of implementation seems to be a safe way of ensuring that a new system will run satisfactorily before committing the whole organization to the new system. However, what problems would be encountered during the pilot phase?
k) How does the various phases of testing relate to the SDLC?