Mythical Man-month (Ch1,2)

Ch 1. The Tar Pit

The Programming Systems Product

A Program	A Programming System (Interfaces System Integration) (Costs at least three times)
A Programming Product (Generalization, Testing, Documentation, Maintenance) (Costs at least three times)	A Pragramming System Product (Costs at least nine times)

- · The Joys of the Craft
 - sheer joy of making things
 - pleasure of making things that are useful to other people
 - complex puzzle-like objects → subtle cycles, playing out the consequences of principles
 - joy of always learning
 - delight of working in such a tractable medium
- The Woes of the Craft
 - one must perform perfectly
 - other people set one's objectives, provide one's resources, and furnish one's information
 - 다른 사람의 작업물에 dependency를 가지게 될 경우
 - finding nitty litle bugs (spending lots of times finding trivial bugs)
 - debugging has a linear convergence
 - the product over which one has labored so long appears to be obsolete upon (or before) completion

Ch2. The Mythical Man-Month

Why lots of software projects have gone awry for lack of time?

Mythical Man-month (Ch1,2)

- 1. poorly developed estimation techniques (근거 없는 all will go well)
- 2. estimationg techniques fallaciously confuse effor with progress
- 3. lack the courteous stubbornness of Antoine's chef
- 4. schedule progress is poorly monitored
- 5. adding manpower, which makes worse
- Optimism
 - : A large programming effort consists of many tasks, some chained end-toend. The probability that each will go well becomes vanishingly small.
- The Man-Month

Cost does indeed vary as the product of number of men and the number of months.

- -Progress does not.
 - Men and months are interchangeable commodities only when a task can be partitioned among many workers 'with no communication among them'.
- When a task cannot be partitioned because of sequential constraints,
 the application of more effort has no effect on the schedule.
- In tasks that can be partitioned but which require communication among the subtasks, the effort of communication must be added to the amount of work to be done.
 - training
 - intercommunication
 - more complex(communication), more effort.
- adding more men then lengthens, not shortens, the schedule.
- Systems Test
 - 1/3 planning
 - 1/6 coding
 - 1/4 component test and early system test
 - 1/4 system test, all components in hand
 - Gutless Estimating

Mythical Man-month (Ch1,2) 2

- need to develop and publicize productivity figures, bug-indicence figures, estimationg rules, and so on
- individual managers will need to stiffen their backbones and defend their estimates with the assurance that their poor hunches are better than wish-derived estimates
- Regenerative Schedule Disaster
 - Adding manpower to a late software project makes it later.

Mythical Man-month (Ch1,2)