

Second-system questions

1. Review the preceeding slides
 - a) Label each bullet by its waterfall stage
 - b) Name the surgical team role that would normally perform the activity
 - c) Identify the IEEE Std 1058 section that would capture the corresponding plan details
2. Estimate the calendar time that would pass between specification and release had these activities followed a waterfall lifecycle.

Partial solutions

<u>XP activity</u>	<u>Waterfall</u>	<u>Surgical team</u>	<u>Std 1058</u>
Larger team project	Analysis	Project manager and/or Surgeon	Startup - Staffing
Two programmers (resource allocation)	Design	Project manager and/or Surgeon	Work plan - Resource
Stand-up meeting (weekly communication)	Impl.	Surgeon and Copilot	Control plan Reporting
Export task definition	Design	Surgeon	Work plan Activities
Task assignment	Before Impl.	Project manager and/or Surgeon	Work plan Resource

Partial solutions (cont.)

<u>XP activity</u>	<u>Waterfall</u>	<u>Surgical team</u>	<u>Std 1058</u>
Rerun all test cases	Testing	Tester	Validation plan
Release code	Release	Surgeon and Clerk	Product acceptance plan
Release test cases	Release	Surgeon and Clerk	Validation plan Quality assurance plan

Brook's rules of thumb: 1/3 planning (analysis & design), 1/6 coding
1/4 component test, 1/4 system test
Assume 1-year project: 2 (coding) + 3 (component) + 3 (system) =
8 months from stand-up meeting to release