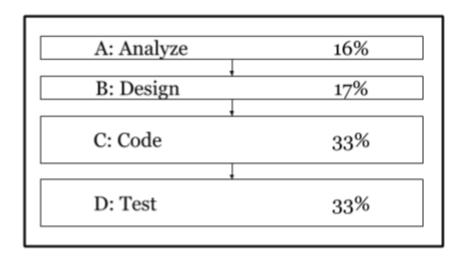
Model 1 The Waterfall Model

The following diagram shows the typical percentage of **total cost & effort** for each stage of software development. In practice, these percentages vary widely by project.



Questions (10 min)

Start time: _____

- 1. Based on the Waterfall Model:
 - a) How many stages are there?
 - b) Which stage is 1st?
 - c) Which stage(s) must be finished before **coding** starts?
- 2. Based on the Waterfall Model:
 - a) What % of total effort is in the **last stage**?
 - b) What % of total effort is in the **first two stages**?
 - c) When the project is <u>25%</u> completed, what % of **analysis** is done?
 - d) When the project is 25% completed, what % of **coding** is done?
 - e) When the project is 50% completed, what % of **coding** is done?
 - f) When the project is 50% completed, what % of **testing** is done?

- **3**. It is important to find and fix errors in software.
 - a) If **coding** errors are found during **C**: **Code**, in which stage should they be fixed?
 - b) If **coding** errors are found during **D**: **Test**, in which stage should they be fixed?
 - c) If **analysis** errors are found during **B: Design**, in which stage should they be fixed?
 - d) If **analysis** errors are found during **D**: **Test**, in which stage should they be fixed?
 - e) Which stage focuses most on **finding** errors?
 - f) Are major errors in analysis and design more likely when the project is **similar** to past projects, or **different**?
- **4**. Later stages often take more time, effort, and money than expected. Explain why based on your answers to the previous questions.