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**Homework 1**

4.3 - What process adaptations are required if the prototype will evolve into a delivery system or product?

Answer: In order for the prototype to be evolved into a delivery system or product, all the stakeholders need to agree upon on a set of requirements in the beginning of the project. As long as the requirement of the actual product is defined, engineers can use the spiral model to make small steps/requirements to continuously create then improve the prototype until it meets the product requirement and release the “prototype”.

4.6 - Is it possible to combine process models? If so, provide an example.

Answer: Yes, it is possible to combine process models. Unified Process is one of them. It attempts to use the best features and characteristic from the traditional software process models, which in turns implemented agile development process. The process work flow is iterative and incremental, providing the evolutionary feel.

5.10 - What is a spike solution in XP?

Answer: A spike solution in XP is when the user encounters a difficult design problem, and a prototype is created and evaluated immediately to minimize the risk before the risk when the actual implement comes.

5.11 - Describe the XP concepts of refactoring and pair programming in your own words?

Answer: Part of code refactoring is to realize that the code is not in the best shape, and making that change to the code without altering the interface of the code. This can be applied to design refactoring also. Improving the design of the internal structure of a system without changing the external behavior. Pair programming is a technique to have engineer to write better code on the first go. Two is better than one, having two people keeping check on the quality of work of each other will force the code writer to be more thoughtful and careful.