

Unit 2 Review – Methods and Loops

1. What are the phases of the PDLC? (in order)	Analysis Design Code Reflection
2. What does PDLC stand for?	Product Development Life Cycle
3. What is a job in the analysis phase?	Analyst
4. What are two jobs in the design phase?	Storyline Writer Code Designer
5. What are four jobs in the coding phase?	Software Engineer Programmer Alpha Tester Beta Tester
6. What are two jobs in the reflection phase?	Help Desk Staff Sales Analyst
7. What are two things that happen in the Analysis phase?	Define problem Interview clients
8. What are four things that happen in the Design phase?	Make structure charts Make flow charts Design artwork Write story
9. What are four things that happen in the Coding phase?	Write code Write comments Alpha testing Beta testing
10. What are three things that happening the Reflection phase?	Advertising Sell product Plan sequel
11. Name 7 of Steven Johnson's ideas related to innovation. [Prompt with starting letters if needed]	A djacent P ossible E rror E xaptation L iquid Networks P latforms S erendipity S low Hunch

12. Input of a method?	Parameters
13. Output of a method?	Return type
14. First line of the method?	Method signature
15. Why is the method signature important?	<ol style="list-style-type: none"> 1. It records the input and the output of the method. 2. It all the information you need to code it AND to use it. 3. This information allows us to divide work among a coding team.
16. Why are methods useful?	<ol style="list-style-type: none"> 1. They allow us to organize places in a program (like the scavenger hunt). 2. They allow us to repeat code in different places of the program (like drawing methods). 3. Method signatures allow us to divide up the coding of a program and standardize the input and output.
17. What is the first part of a loop? [Prompt with starting letters if needed]	Initialize Loop Stopping Variable
18. What is the second part of a loop? [Prompt with starting letters if needed]	Test Loop Stopping Condition
19. What is the third part of a loop? [Prompt with starting letters if needed]	Steps To Repeat
20. What is the fourth part of a loop? [Prompt with starting letters if needed]	Progress To The Loop Stopping Condition

21. Why are for loops helpful?	1. They can repeat code without cutting and pasting it. This saves lines. 2. They are used for situations where you know how many times you want to repeat code.
22. Why are while loops helpful?	1. They can repeat code without cutting and pasting it. This saves lines. 2. They can repeat things until a condition is met (answer is correct, or the user wants to quit)
23. Which application was known for its innovative ANALYSIS phase?	Dumb Ways to Die
24. Which application was known for its innovative DESIGN phase?	Candy Crush
25. Which application was known for its innovative CODING phase?	Avatar Movie
26. Which application was known for its innovative REFLECTION phase?	GTA5
27. By how much did Dumb Ways to Die reduce near-miss-accidents?	30% reduction
28. In 2013, how much was Candy Crush making per day?	\$1M
29. How long did it take Avatar to make \$1B?	19 days
30. How long did it take for GTA5 to make \$1B?	3 days
31. What was innovative about Candy Crush?	DESIGNED to targeted a new market: all genders and all ages. DESIGNED to use freemium model
32. What was innovative about Avatar?	900 CODERS were able to work together seamlessly.
33. What was innovative about GTA5?	(1) Of the \$265 million budget, \$128 on marketing. (2) REFLECTION sales strategy very innovative.

34. Two java keywords to repeat code.	For, While
35. One java keyword for decisions	If
36. First java keyword in a method	Public
37. What type is a price parameter?	Double
38. What type is a isDone parameter?	Boolean
39. What type is a name parameter?	String
40. What type is a firstletter parameter?	Char
41. What type is a cost parameter?	Double
42. What type is a phone number parameter?	String
43. Why is the PDLC helpful?	(1) It is the steps to design and build a large program. (2) Large projects, with many coders need to be well planned to ensure that everyone's work can fit together.