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Video Response Questionnaire: Iteration

1. A infinite loop, is a for or while loop within a program that is written such that it’s condition is never not met while in the loop. Infinite loops consume system resources and never allow a program to properly execute. Preventing infinite loops requires code to written such that whatever condition the loop starts out in, must end at some point within the iteration of the loop or another part of the program.
2. A fencepost error is a logic error made by the programmer in the case of counting for a loop, miscounting by some amount, usually plus or minus one when counting for how many iterations of a loop must execute. This error is in failing to recognize the base number set for a variable within the loop condition and counting appropriately.
3. A for loop must have a variable, a condition, and an incrementing or decrementing statement that ends the iteration of the loop at some point.