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IT 140

Module 4-3: Pseudocode Revisited

PseudoCode:

```
PRINT "Welcome to the higher/lower game, Bella!"

// Step 1: Get lower and upper bounds with input
   validation
WHILE true
    READ lowerBound from user with prompt "Enter the
        lower bound: "
    READ upperBound from user with prompt "Enter the
        upper bound: "
    IF lowerBound < upperBound THEN
        BREAK
    ELSE
        PRINT "The lower bound must be less than the
            upper bound."
    ENDIF
ENDWHILE


// Step 2: Generate a random number between lowerBound
   and upperBound
SET randomNumber to a random integer between lowerBound
   and upperBound inclusive

// Step 3: Prompt user to guess a number with input
   validation and feedback
PRINT "Great, now guess a number between " + lowerBound
   + " and " + upperBound + ": "
WHILE true
    READ guess from user with prompt ""
    IF guess < lowerBound OR guess > upperBound THEN
        PRINT "Please guess a number between " +
            lowerBound + " and " + upperBound + "."
    ELSE IF guess < randomNumber THEN
        PRINT "Nope, too low."
        PRINT "Guess another number: "
```

```
    ELSE IF guess > randomNumber THEN
        PRINT "Nope, too high."
        PRINT "Guess another number: "
    ELSE
        PRINT "You got it!"
        BREAK
    ENDIF
ENDWHILE
```