4-3 Assignment: Pseudocode Revisited

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#Welcome

Display “Welcome to the higher/lower game, Bella!”

# Input lower and upper bounds

Input lowerBound

Input upperBound

# Validate bounds

WHILE lowerBound >= upperBound

Display “The lower bound must be less than the upper bound.”

Input lowerBound

Input upperBound

END WHILE

# Generate a random number within the given bounds

randomNum = GenerateRandomNumber(lowerBound, upperBound)

# Start the game loop

WHILE True

Display “Great! Now guess a number between “ + lowerBound + “ and ” + upperBound + “:”

Input userGuess

# Validate user’s guess

IF userGuess < lowerBound OR userGuess > upperBound

Display “Please enter a number between “ + lowerBound + “ and “ + upperBound + “.”

Continue # Skip the rest of the loop and prompt for a new guess.

# Check if the guess is correct

IF userGuess == randomNum

Display “You got it!”

Exit Loop

# Provide hints based on the user’s guess

IF userGuess < randomNum

Display “Nope, too low.”

ELSE

Display “Nope, too high.”

END IF

END WHILE