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Homework 2 – Square Footage

**Problem:** The problem that has arisen is that when someone enters dimensions of a room, they don’t know the square footage of the room. In order to fix this issue, I will ask for and accept one number for the length and one number for the width. Once these two pieces of information have been given by the user, the program will calculate the square footage of the room.

**Solution:** I will accept one number for the length. Once I have received an input from the user, I will ask for the width. Once, received, the program will multiply them together (W \* L = Length and Width) to output the Area of the room to the user.

**Flow Chart:**

Your Room Length is: xxx

Your Room Width is: xxx

Your Total Square Footage is: xxx

Calculate Square Footage:

roomArea = roomLength \* roomWidth

Receive number for Width of Room

Ask for Width of room

Receive number for Length of room

Ask for Length of room

Start

Stop

**Pseudocode:**

Start

**Print:** “Please enter the Length of the room.”

**Scan:** When number is received, save in Var roomLength

**Print: “**Please enter the Width of the room.”

**Scan:** When number is received, save in Var roomWidth

**Declare:** roomArea

**Calculate:** roomArea = roomLength \* roomWidth

**Print: “**Your Room Length is: xxx

Your Room Width is: xxx

Your Total Square Footage is: xxx”

Stop