**Generate Room Details Pseudo code**

Open text file

Start loop for reading rooms

Separate products

Call Rung Builder on the list of products

Call Input Device Inserter

Save first point to connect to first controller

Loop through each device

Determine x and y coordinates of connection points

Connect to previous

Save last point to connect 1 LMRJ45 port device for later

Determine how many products can be on each controller rung

Save first point from input devices as previous connection point

Loop for controllers

Call Controller Builder on current controller

Determine x and y coordinates of connection points

Connection to previous point (input for first or controller for rest)

Save previous connection point for next controller iteration

Set current coordinates to connect the following rung

Occupancy Loop

Call Product Inserter

Determine size of product

Connect to previous

Switch Loop

Determine size of product

Make connection lines