# Draw House Programing Report

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**Verify a valid design.**

In my program, there’s a piece of the code in my program to verify the design of the house meets the requirements. I use “if” to verify the requirements such as total width, total height, etc. If it doesn’t meet the requirements, the program will print “the house design is invalid.” And return 1, which means the program meets some kind of error and will be shut down.

**Working experience**

The way I draw the house is to separate them into different parts, especially the house body, I divided the house body into 4 parts. The top wall, the middle part of the wall + window + the upper part of the door, the lower part of the wall + the lower part of the door and the last one, the lowest part of the wall.

**Problems**

The most difficult part of the house to draw is the body of it since it has various type of characters, the best way to draw it should be to use “for loop” for every different character, but my program use constant to draw the “=” and “+” “&” part just to simplify the program and make it shorter. When I was typing the code, I’ve encountered a problem. When I was writing the verify part, I use “**exit (1)”** to shut down the program when the house design is invalid, but it keeps having error, after I go do some research I realize it’s because I didn’t type “**#include<stdlib.h>”** in the beginning of the code, it’s not a big problem but when it happens in a long program (I wrote the verify part and the end), I got lost and keep trying to find the bug.