# Report of assignment1

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for(i=0;i<r_side+2;++i) r_side have 16 levels, however the roof have 18 levels in total. Therefore, this for loop is for whole roof, so I added 2.

I used for loop to design the roof, inside the first for loop, I print for space first (reverse triangle). And print frame directly. At the same time, I use if(i==0) for first line. for(j=0;j<r_top+2*i-2;++j) used to print interior roof. if(r_side+1) used to print the bottom of roof.

for(i=0;i<thickness_wall_ceiling_floor;++i) to print 2 line under the roof. for(j=0;j<total_width_house-4;++j) equal the long of ceiling, minus 4 space.

for(i=0;i<space_window_door_ceiling;++i) to print the house between window and ceiling. And inside this for loop, there are another two for loop. One is to print the spaces outside the house, plus two @@ for wall thickness. Another one is to print the spaces inside the house, plus two @@ for wall thickness.

Next, make the window and door.

For(i=0;i<height_window;++i), this loop is used to create the

section representing windows and doors. This loop includes two second biggest loop. First one is to print the spaces outside the door. Second one is to print the things inside the house, including two window and one door. Talk about making window first. Because there is different look in different layer, and I find the law. Layer number beginning with 0, so if i/6 divisible i use many for loop to print “=” window, spaces, door, spaces, and “=” window, spaces. Else, print “= + + =” for window, spaces, door, spaces, and window.

Furthermore, the door is higher than window, so I used for(i=0;i<height_door-height_window;++i) to make the door which over window.

Make the part which between door and floor. The way I used is same with the ceiling to window, but I changed the variable into “space_floor _door”. The last one print the floor. I used the same way with making ceiling, also used the same variable “thicknee_wall_ceiling_floor”.