Version.1

1. scan all number
2. consider the roof bottom is even or odd to decide the size of the door
3. print the roof: print the r\_top and r\_bottom individual, then print the middle part by considering which position to print (@), else print (\*).
4. Print the house: the size of the window is 9x13, and the size of the door is 12x17 or 13x17 when r\_bottom is even or odd. The gap between window is 1. Therefore, only the distance between the door and the window is uncertain and is calculated

Version.2

1. Since r\_top, r\_side, r\_bottom are given value, print the roof using for and replace the inner part with “\*” by using if else to control the exact position while the print process
2. The h\_width is consider 4 spaces thinner than r\_bottom, since the house is printed layer by layer, separate each layer into groups and then print the character required by using the same method as step.1, and also while printing same character I use and (&&) otherwise when printing in certain spots I use or (||).­