

Programming Assignment 1: Draw house

D1271450 Eileen 李宇恩

How to verify whether the house is valid or not

I have put the verification in my code, using if else to see if the house's whole, interior and exterior height and the width add up with the house being printed, and if it does, it is to print the variables of the whole, interior and exterior height and the width, "This house is valid" and print the house; if not, "This house is not valid" would be printed.

The process of writing the code of the house

Firstly, I read the instructions to building the house, then I wrote down the variables on a piece of paper for me to see clearer what is needed in different parts when constructing.

Secondly, I started to disassemble the house into various parts, the roof comes first, printing the first row then the roof self, at last the bottom of the roof. The next comes the house's top wall, the top wall to the window, the window, the bottom door that has no window in that row, the door to the bottom wall and the bottom wall in that order by rows.

Finally, I use if else to verify if the house is valid or invalid, when finished, I ran the code for several times making sure the house is solid and valid.

The problems I faced when writing the code

I encountered the problem of how to calculate the roof's escalating side at the very beginning, I solved this problem by writing down the equations and using variables, I finally got the accurate solution.

Later I had some troubles with some numbers having no variables to represent them, after thinking on it for a moment, I came to the realization that I should just add a declaration at the beginning.

I also had a little problem with forgetting where I was building when I check the image of the house, which means I had to switch to another page, I resolved this by at first taking a photo of the house, and when that didn't work as well as anticipated, I printed out the picture of the house, putting it next to my equations paper, it became very easy for me

to keep up with where I am currently writing the code for.

I think the biggest problem I had is that I didn't really understand the mechanism of the for loop usage when learned in class, but after searching on line and consulting my classmates, I figured out how the for loop works, and what each variables mean in it, and what the symbols represent.