



This is a diagram I made to show how the number shacks correlate together.

The top number in the roof of the shack is always half of the shack two shacks ahead; the roof number is always the same as the middle-left number of the next shack.

The middle two windows always have a difference of the roof number and the bottom is the sum of the windows together.

To work out the previous shack you would have to:

- Divide your roof number by two to get the middle left window of the shack.
- Then, you would take the middle left window of the shack you are starting from to get the roof number of the previous shack.
- Next, you would take the roof number of the previous shack and you would add it to the middle-left window of the previous shack to get the middle right window of the previous shack.
- Finally you would add the middle windows of the previous shack together to get the bottom 'door' number.

To get the next shack you would 'simply' reverse the process.  
To do this you must first