We have a wooden board and our plan is to make small square shaped boards by cutting this board. We need to find how many such square shaped boards can be made when the side for the required board is given. Also we are looking for the area of the wooden board that will get wasted after it is cut. We cannot use the remaining area of the board by combining it to form squares.

INPUT FORMAT (file squares.in)
Three integers in different lines. The first integer represents the width of the wooden board in meters. The second integer represents the height of the board in meters. The third integer is to represent the side of the required wooden squares.

OUTPUT FORMAT (file squares.out)
The output file contains two lines. First line has the number of wooden squares that can be made with the given data. The second line has the area of the board (in m^2) that cannot be used to make any wooden square of the given side.

SAMPLE INPUT
100
90
8

SAMPLE OUTPUT
132
552