Black and white painting

You are visiting the Centre Pompidou which contains a lot of modern paintings. In particular you notice one painting which consists solely of black and white squares, arranged in rows and columns like in a chess board (no two adjacent squares have the same colour). By the way, the artist did not use the tool of problem A to create the painting.

Since you are bored, you wonder how many 8×8 chess boards are embedded within this painting. The bottom right corner of a chess board must always be white.

Input Specification

The input contains several test cases. Each test case consists of one line with three integers \mathbf{n} , \mathbf{m} and \mathbf{c} . ($8 \le n$, $m \le 40000$), where \mathbf{n} is the number of rows of the painting, and \mathbf{m} is the number of columns of the painting. \mathbf{c} is always 0 or 1, where 0 indicates that the bottom right corner of the painting is black, and 1 indicates that this corner is white.

The last test case is followed by a line containing three zeros.

Output Specification

For each test case, print the number of chess boards embedded within the given painting.

Sample Input

8 8 0 8 8 1 9 9 1 40000 39999 0 0 0 0

Sample Output