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 $8 \times 8$ chess boards are embedded within this painting. The bottom right corner of a chess board must always be white.

## Input

The input contains several test cases. Each test case consists of one line with three integers $n, m$ and c. ( $8 \leq n, m \leq 40000$ ), where $n$ is the number of rows of the painting, and $m$ is the number of columns of the painting. $c$ 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

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

## Sample Input

880
881
991
40000399990
000

## Sample Output

0
1
2
799700028

