

Problem A

Bob's Floor

Source file name: bob.c, bob.cpp or bob.java

Bob is back again in the construction industry. His business has grown so fast that he is constantly revamping his computer tools and looking for talented programmers that aid him to improve supply order estimations.

Just right now, he has a big project that involves the installation of tiles on massive floor areas. In this particular job, once the tiles are pasted over the floor, tiles borders must be covered with a special (and very expensive) decorative plaster. These areas always fit a rectangular shape, where Bob will need to know precisely the total perimeter in linear meters of the whole area (including joints between tiles). With this information he would be able to make a far better assessment of the plaster needed to finish the job.

Input

The problem contains several test cases. Each test case is comprised of three integers N , M and L ($0 < N, M, L \leq 1000$) separated by blank spaces. N and M represent the number of rows and columns composing the floor-tiled area and L the side's length of a single tile.

The input file is terminated by a case where $N = 0$, $M = 0$ and $L = 0$.

The input must be read from standard input.

Output

For each test case, print exactly one line of output containing the total perimeter of the area that will need the special covering plaster.

The output must be written to standard output.

Sample input	Output for the sample input
1 4 4	52
2 3 3	51
1 8 2	50
0 0 0	