## A. Domino piling

time limit per test: 2 seconds memory limit per test: 256 megabytes

input: standard input output: standard output

You are given a rectangular board of  $M \times N$  squares. Also you are given an unlimited number of standard domino pieces of  $2 \times 1$  squares. You are allowed to rotate the pieces. You are asked to place as many dominoes as possible on the board so as to meet the following conditions:

- 1. Each domino completely covers two squares.
- 2. No two dominoes overlap.
- 3. Each domino lies entirely inside the board. It is allowed to touch the edges of the board.

Find the maximum number of dominoes, which can be placed under these restrictions.

## Input

In a single line you are given two integers M and N — board sizes in squares ( $1 \le M \le N \le 16$ ).

## **Output**

Output one number — the maximal number of dominoes, which can be placed.

## **Examples**