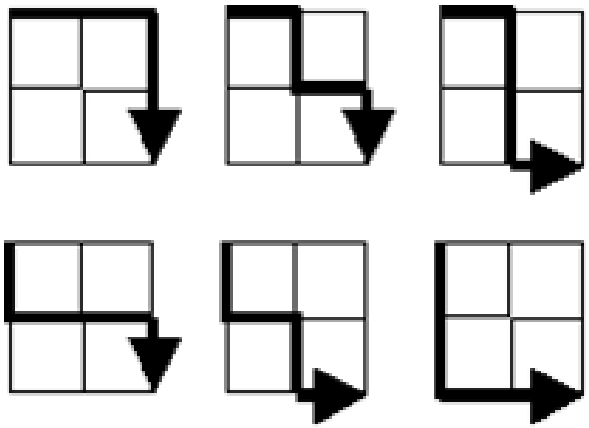
Lattice paths

Starting in the top left corner of a 2×2 grid, and only being able to move to the right and down, there are exactly 6 routes to the bottom right corner.



Write a program that reads two non-negative integers, n and m, and writes the number of routes for an $n \times m$ grid.

(ProjectEuler #15)