Section 4: Dynamic Programming (2 Questions)

Money Change Again

1/1 point (graded)

Assume that you have an unlimited number of coins with denominatios 1, 5, 6. What is the minimum number of coins needed to change 28?

5 ✔

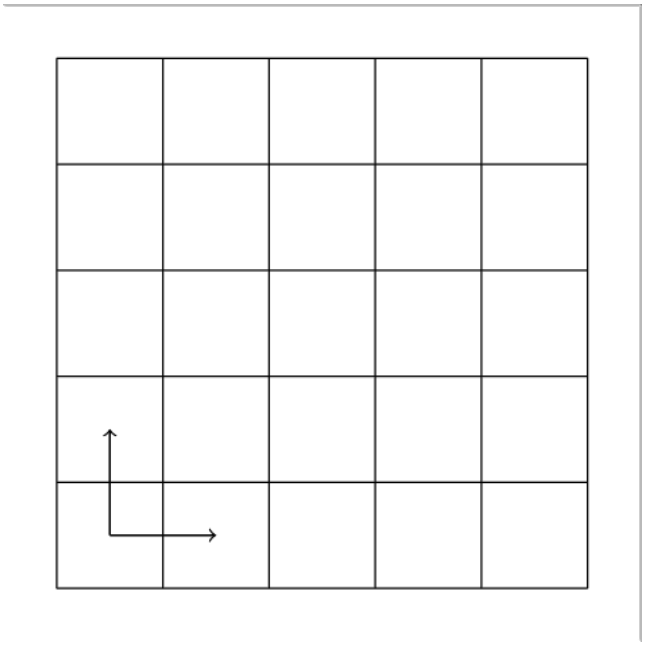
5

Submit You have used 1 of 1 attempt

Number of Paths in a Grid

1/1 point (graded)

Consider the following 5×5 grid:



You start at the bottom left cell. In one step, you are allowed to go either one cell up or one cell to the right. Your goal is to compute the number of different paths from the bottom left cell to the top right cell.

For example, for the 2×2 grid the answer is 2 (the corresponding two paths are: $[\rightarrow, \uparrow], [\uparrow, \rightarrow]$).

Compute the number of paths for the 5×5 grid.

70 ✔

70

Submit You have used 1 of 1 attempt