

Project Euler Problem 15

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Find the number of ways to go from top left to bottom right of 20x20 grid, with R and D moves.

Obviously have to make 40 moves total (20 R and 20 D) no matter what. So if we look at the number of rearrangements of 40 objects that are 2 sets of 20 of the same thing we have $40!/(20! \cdot 20!)$.

Solution: 137846528820.