

Recipe name: dice_seven

Inputs:

sides, integer, the number of sides for each dice. Must be greater than or equal to 1.

Outputs:

ways, integer, the number of ways for four dice of *sides* number of sides to roll a total that is an integer multiple of 7.

1. Let *ways* be a new integer.
2. For each number *first_dice* from 1 to *sides*, do the following:
 - a. For each number *second_dice* from 1 to *sides*, do the following:
 - i. For each number *third_dice* from 1 to *sides*, do the following:
 1. For each number *fourth_dice* from 1 to *sides*, do the following:
 - a. If the remainder of $(first_dice + second_dice + third_dice + fourth_dice) / 7$ is 0, then
 - i. Add 1 to *ways*
3. Return *ways*