**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:
   1. For each number *second\_dice* from 1 to *sides*, do the following:
      1. 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:
            1. If the remainder of (*first\_dice* + *second\_dice* + *third\_dice* + *fourth\_dice*) / 7 is 0, then

Add 1 to *ways*

1. Return *ways*