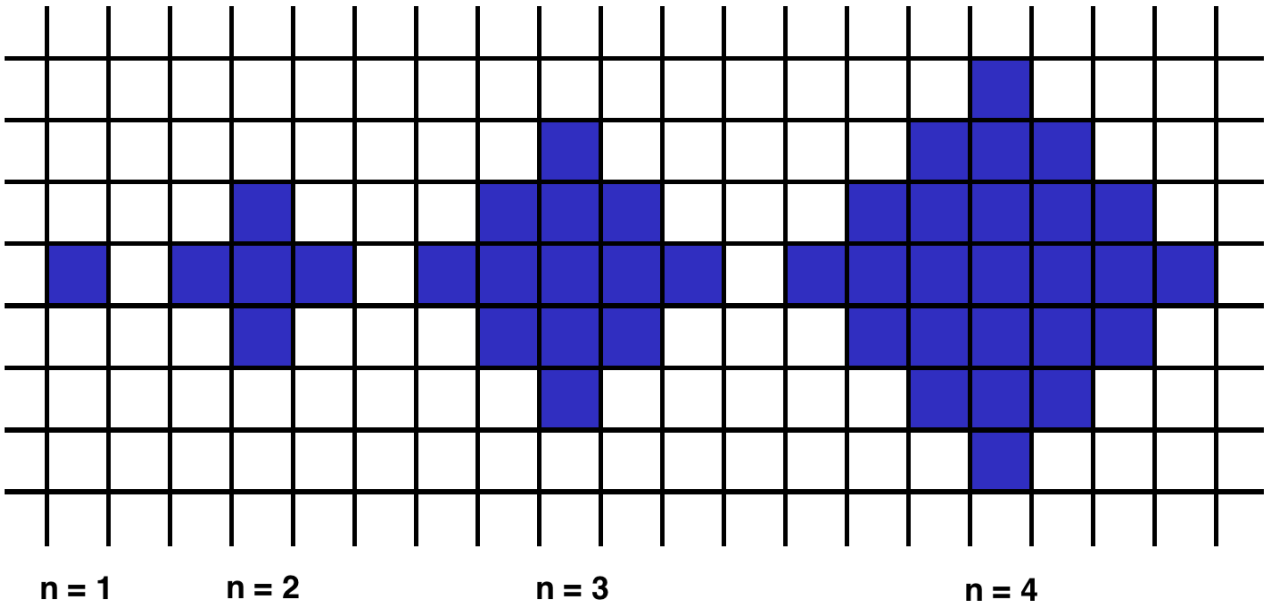
BACK

shapeArea

DESCRIPTION SOLUTIONS 63787 COMMENTS 138 REA CODEWRITING SCORE: 300/300

Below we will define an `n`-interesting polygon. Your task is to find the area of a polygon for a given `n`.

A `1`-interesting polygon is just a square with a side of length `1`. An `n`-interesting polygon is obtained by taking the `n - 1`-interesting polygon and appending `1`-interesting polygons to its rim, side by side. You can see the `1`-, `2`-, `3`- and `4`-interesting polygons in the picture below.



Example

- For `n = 2`, the output should be `shapeArea(n) = 5`;
- For `n = 3`, the output should be `shapeArea(n) = 13`.

Input/Output

- **[execution time limit] 4 seconds (js)**
- **[input] integer n**

  Guaranteed constraints:
  $1 \leq n < 10^4$.