

1739. Building Boxes

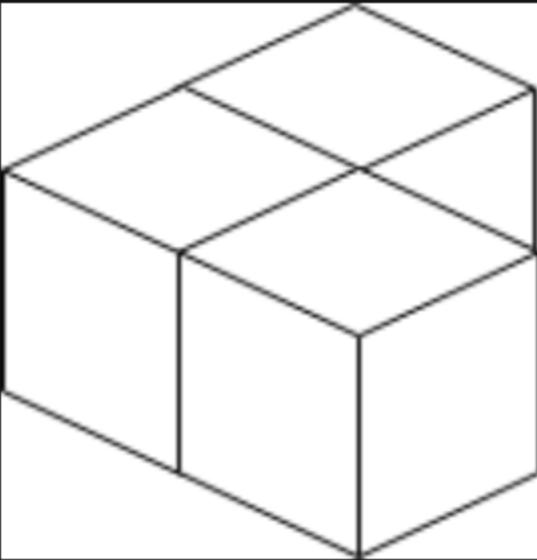
Description

You have a cubic storeroom where the width, length, and height of the room are all equal to `n` units. You are asked to place `n` boxes in this room where each box is a cube of unit side length. There are however some rules to placing the boxes:

- You can place the boxes anywhere on the floor.
- If box `x` is placed on top of the box `y`, then each side of the four vertical sides of the box `y` **must** either be adjacent to another box or to a wall.

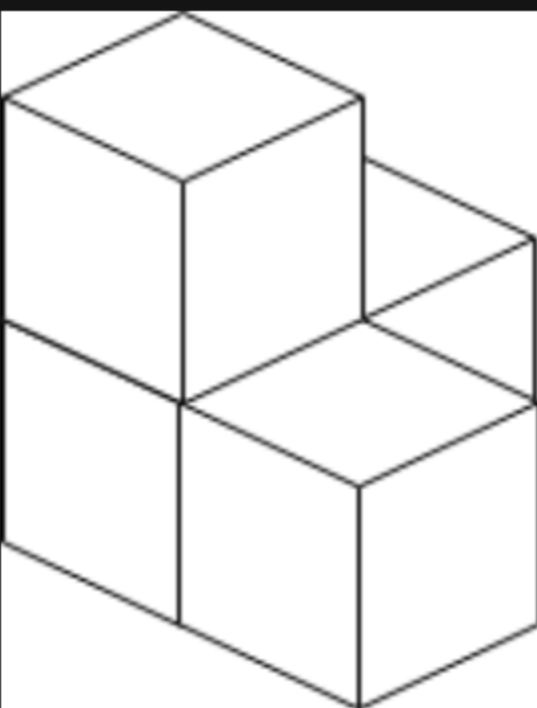
Given an integer `n`, return *the minimum possible number of boxes touching the floor*.

Example 1:



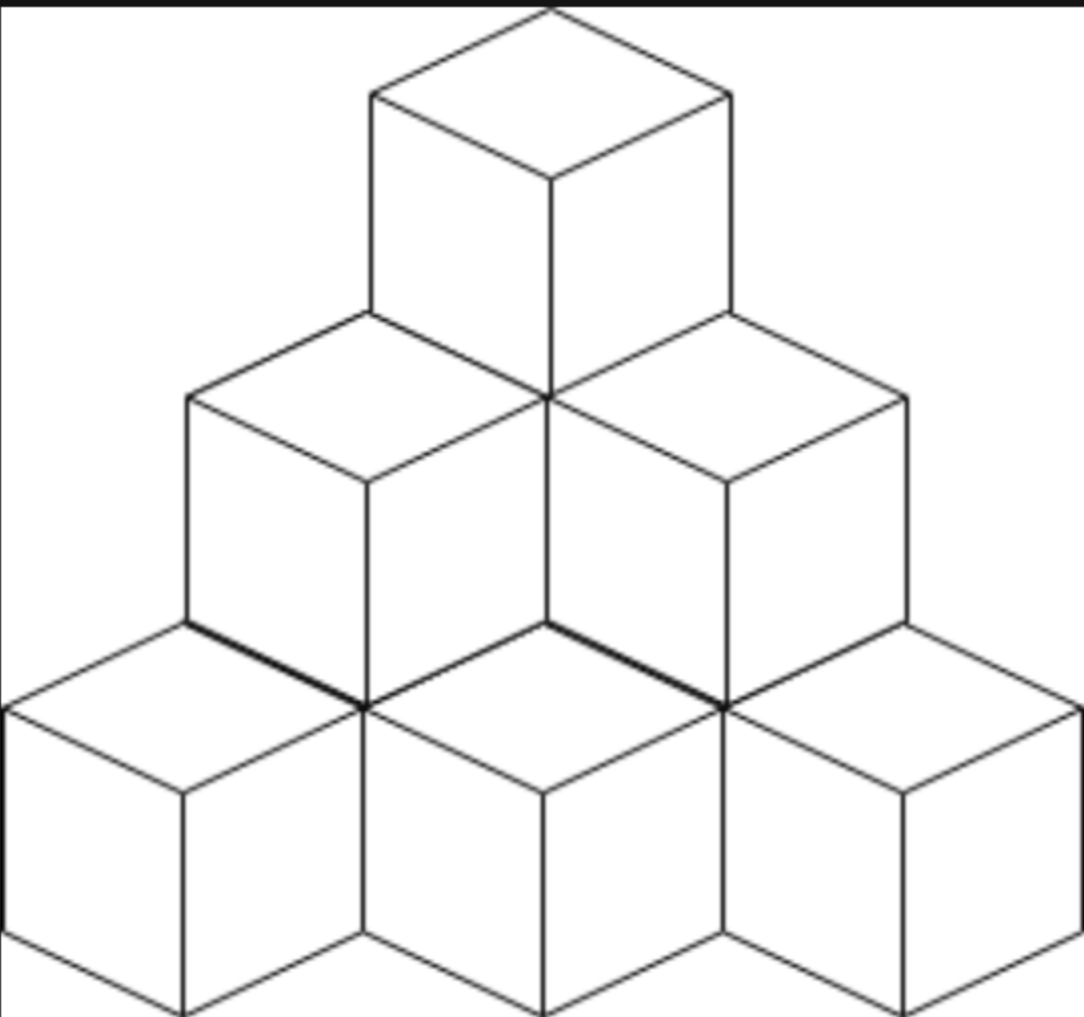
Input: `n = 3`
Output: `3`
Explanation: The figure above is for the placement of the three boxes. These boxes are placed in the corner of the room, where the corner is on the left side.

Example 2:



Input: `n = 4`
Output: `3`
Explanation: The figure above is for the placement of the four boxes. These boxes are placed in the corner of the room, where the corner is on the left side.

Example 3:



Input: `n = 10`
Output: `6`
Explanation: The figure above is for the placement of the ten boxes. These boxes are placed in the corner of the room, where the corner is on the back side.

Constraints:

- `1 <= n <= 109`

