



5664. Building Boxes

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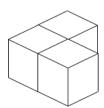
You have a cubic storeroom where the width, length, and height of the room are all equal to n units. You are asked to place n boxes in this room where each box is a cube of unit side length. There are however some rules to placing the boxes:

- 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.

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Hard

Example 1:

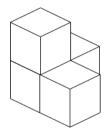


Input: n = 3Output: 3

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:

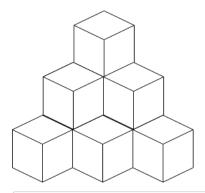


Input: n = 4Output: 3

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 = 10Output: 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

JavaScript

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