Arranging Coins

You have n coins and you want to build a staircase with these coins. The staircase consists of k rows where the i^{th} row has exactly i coins. The last row of the staircase may be incomplete.

Given the integer n, return the number of ***complete rows*** of the staircase you will build.

Input:

- Input consists of a single integer n $(1 <= n <= 2^{31} - 1)$, the ammount of coins you have.

Output:

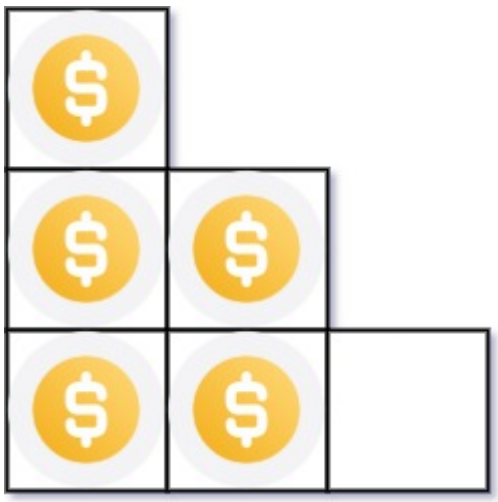
- Output a single integer (the number of complete rows of the staircase you will build).

Samples:

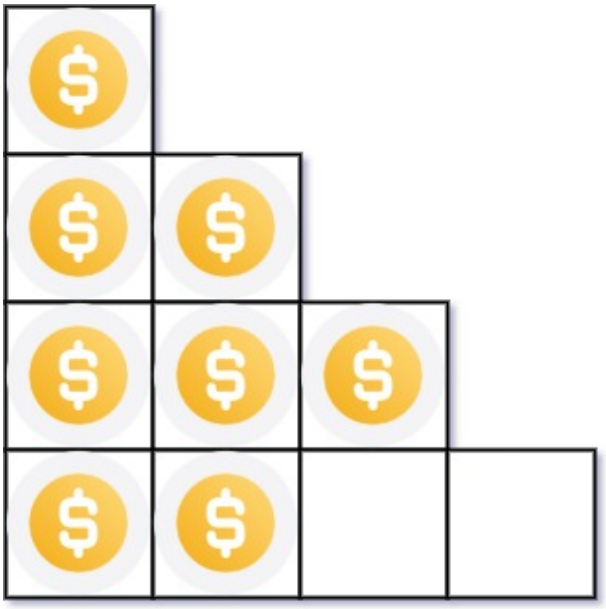
Input	Output
5	2
8	3

Explanation:

Sample 1



Sample 2



Tip:

What is the formula of the sum of the first *n* natural numbers? 1 + 2 + 3 + … + n

Source: https://leetcode.com/problems/arranging-coins/