Problem 441: Arranging Coins

Problem Information

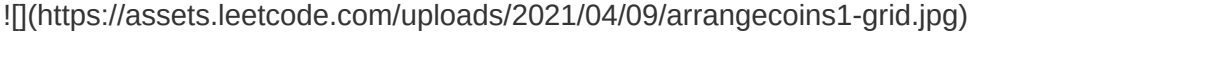
Difficulty: Easy
Acceptance Rate: 47.74%
Paid Only: No
Tags: Math, Binary Search

Problem Description

You have `n` coins and you want to build a staircase with these coins. The staircase consists of `k` rows where the `ith` 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_.

Example 1:



Input: n = 5 **Output:** 2 **Explanation:** Because the 3rd row is incomplete, we return 2.

Example 2:

Input: n = 8 **Output:** 3 **Explanation:** Because the 4th row is incomplete, we return 3.

Constraints:

* `1 <= n <= 231 - 1`

Code Snippets

C++:

```
class Solution {
public:
int arrangeCoins(int n) {

}
};
```

Java:

```
class Solution {
public int arrangeCoins(int n) {

}
}
```

Python3:

```
class Solution:
def arrangeCoins(self, n: int) -> int:
```