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Description Solution Discuss (999+) Submissions

Python Autocomplete

69. Sqrt(x)

Easy 5222 3671 Add to List Share

Given a non-negative integer `x`, return *the square root of* `x` *rounded down to the nearest integer*. The returned integer should be **non-negative** as well.

You **must not use** any built-in exponent function or operator.

- For example, do not use `pow(x, 0.5)` in c++ or `x ** 0.5` in python.

Example 1:

```
Input: x = 4
Output: 2
Explanation: The square root of 4 is 2, so we return 2.
```

Example 2:

```
Input: x = 8
Output: 2
Explanation: The square root of 8 is 2.82842..., and since we round it
down to the nearest integer, 2 is returned.
```

```python
class Solution(object):
    def mySqrt(self, x):
        """
        :type x: int
        :rtype: int
        """
        i=1
        while True:
            if i*i>x:
                return i-1
            i+=1
```

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Testcase Run Code Result Debugger

Accepted Runtime: 22 ms

Your input 4

Output 2

Diff

Expected 2

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Description Solution Discuss (999+) Submissions

Python Autocomplete

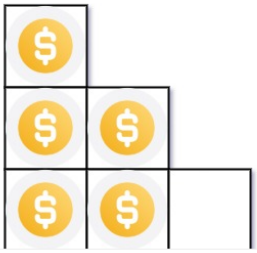
441. Arranging Coins

Easy 2813 1134 Add to List Share

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.*

Example 1:



```python
class Solution(object):
    def arrangeCoins(self, n):
        """
        :type n: int
        :rtype: int
        """
        s=0
        i=0
        while True:
            if s>=n:
                break
            i+=1
            s+=i
```

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Testcase Run Code Result Debugger

Accepted Runtime: 30 ms

Your input 5

Output 2

Diff

Expected 2

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Description Solution Discuss (999+) Submissions

279. Perfect Squares

Medium 7734 335 Add to List Share

Given an integer `n`, return *the least number of perfect square numbers that sum to* `n`.

A **perfect square** is an integer that is the square of an integer; in other words, it is the product of some integer with itself. For example, `1`, `4`, `9`, and `16` are perfect squares while `3` and `11` are not.

Example 1:

```
Input: n = 12
Output: 3
Explanation: 12 = 4 + 4 + 4.
```

Example 2:

```
Input: n = 13
Output: 2
Explanation: 13 = 4 + 9.
```

Python Autocomplete

```python
class Solution:
    def numSquares(self, n):
        if int(sqrt(n))**2 == n: return 1
        for j in range(int(sqrt(n)) + 1):
            if int(sqrt(n - j*j))**2 == n - j*j: return 2

        while n % 4 == 0:
            n >>= 2
        if n % 8 == 7: return 4
        return 3
```

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Testcase Run Code Result Debugger

Accepted Runtime: 35 ms

Your input 12

Output 3 Diff

Expected 3

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https://leetcode.com

leetcode.com/problems/toeplitz-matrix/

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Description Solution Discuss (999+) Submissions

766. Toeplitz Matrix

Easy 3081 150 Add to List Share

Given an `m x n` `matrix`, return `true` *if the matrix is Toeplitz. Otherwise, return* `false`.

A matrix is **Toeplitz** if every diagonal from top-left to bottom-right has the same elements.

Example 1:

1	2	3	4
5	1	2	3
9	5	1	2

Python Autocomplete

```python
class Solution(object):
    def isToeplitzMatrix(self, matrix):
        """
        :type matrix: List[List[int]]
        :rtype: bool
        """
        # if len(matrix)==1 or len(matrix==2):
            # return True
        for i in range(len(matrix)-1):
            for j in range(len(matrix[i])-1):
                if matrix[i][j]!=matrix[i+1][j+1]:
                    return False
        return True
```

Your previous code was restored from your local storage. Reset to default

Testcase Run Code Result Debugger

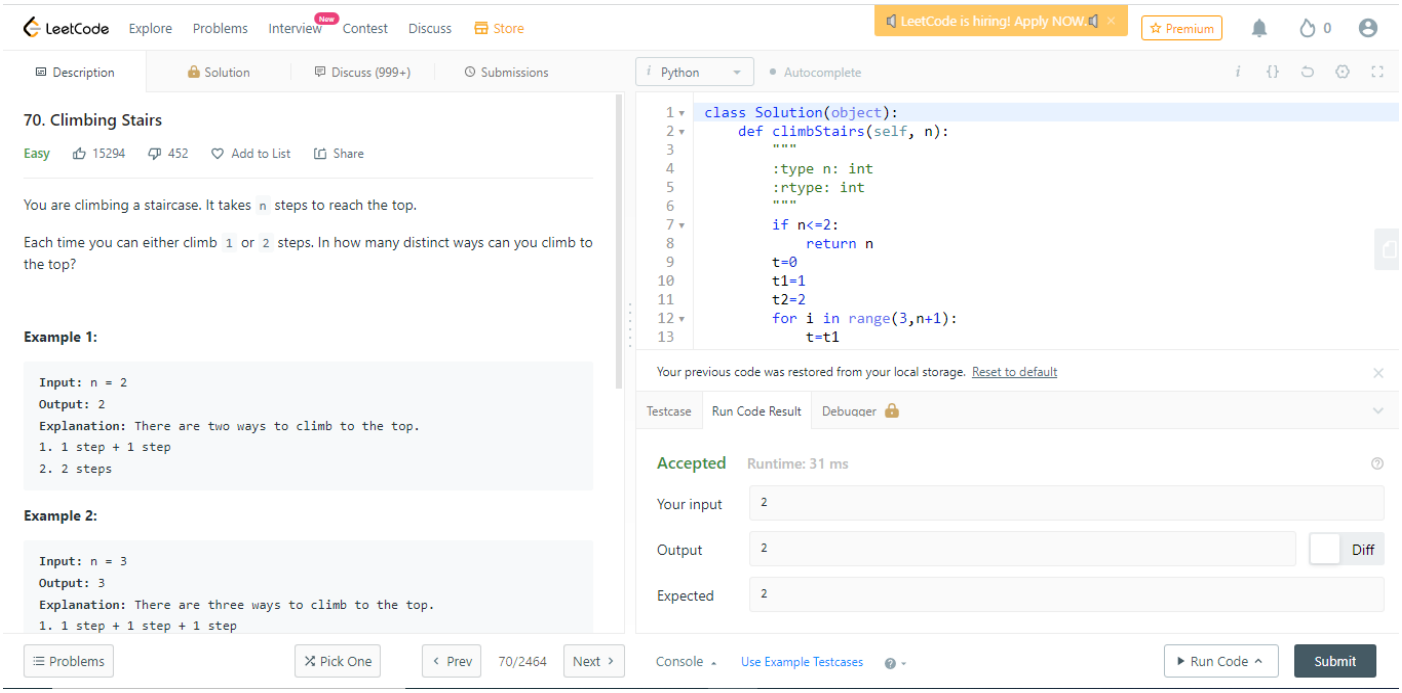
Accepted Runtime: 38 ms

Your input [[1,2,3,4],[5,1,2,3],[9,5,1,2]]

Output true Diff

Expected true

Problems Pick One Prev 766/2464 Next Console Use Example Testcases Run Code Submit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Submissions
Python
Autocomplete
70. Climbing Stairs
Easy
15294
452
Add to List
Share
You are climbing a staircase. It takes n steps to reach the top.
Each time you can either climb 1 or 2 steps. In how many distinct ways can you climb to the top?
Example 1:
Input: n = 2
Output: 2
Explanation: There are two ways to climb to the top.
1. 1 step + 1 step
2. 2 steps
Example 2:
Input: n = 3
Output: 3
Explanation: There are three ways to climb to the top.
1. 1 step + 1 step + 1 step
class Solution(object):
def climbStairs(self, n):
"""
:type n: int
:rtype: int
"""
if n<=2:
return n
t=0
t1=1
t2=2
for i in range(3,n+1):
t=t1
Your previous code was restored from your local storage. Reset to default
Testcase
Run Code Result
Debugger
Accepted
Runtime: 31 ms
Your input
2
Output
2
Diff
Expected
2
Problems
Pick One
Prev
70/2464
Next
Console
Use Example Testcases
Run Code
Submit