

Problem 2769: Find the Maximum Achievable Number

Problem Information

Difficulty: Easy

Acceptance Rate: 91.05%

Paid Only: No

Tags: Math

Problem Description

Given two integers, num and t . A **number** x is **achievable** if it can become equal to num after applying the following operation **at most** t times:

* Increase or decrease x by 1 , and simultaneously increase or decrease num by 1 .

Return the **maximum** possible value of x .

Example 1:

Input: $\text{num} = 4, t = 1$

Output: 6

Explanation:

Apply the following operation once to make the maximum achievable number equal to num :

* Decrease the maximum achievable number by 1, and increase num by 1.

Example 2:

Input: $\text{num} = 3, t = 2$

Output: 7

****Explanation:****

Apply the following operation twice to make the maximum achievable number equal to `num`:

* Decrease the maximum achievable number by 1, and increase `num` by 1.

****Constraints:****

* `1 <= num, t <= 50`

Code Snippets

C++:

```
class Solution {
public:
    int theMaximumAchievableX(int num, int t) {

    }
};
```

Java:

```
class Solution {
    public int theMaximumAchievableX(int num, int t) {

    }
}
```

Python3:

```
class Solution:
    def theMaximumAchievableX(self, num: int, t: int) -> int:
```