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6245. Find the Pivot Integer

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Given a positive integer $\, n \,$, find the **pivot integer** $\, x \,$ such that:

• The sum of all elements between 1 and x inclusively equals the sum of all elements between x and n inclusively.

Return the pivot integer x. If no such integer exists, return -1. It is guaranteed that there will be at most one pivot index for the given input.

User Accepted: 2562 User Tried: 2641 Total Accepted: 2569 **Total Submissions:** 2741 Difficulty: (Easy)

Example 1:

```
Input: n = 8
Output: 6
Explanation: 6 is the pivot integer since: 1 + 2 + 3 + 4 + 5 + 6 = 6 + 7 + 8 = 21.
```

Example 2:

```
Input: n = 1
Output: 1
Explanation: 1 is the pivot integer since: 1 = 1.
```

Example 3:

```
Input: n = 4
Output: -1
Explanation: It can be proved that no such integer exist.
```

Constraints:

• 1 <= n <= 1000

```
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JavaScript
    const sumOfRange = (l, r) \Rightarrow (l + r) * (r - l + 1) / 2;
1
2
3 •
    const pivotInteger = (n) => {
4 •
        for (let x = 1; x <= n; x++) {
5
            if (sumOfRange(1, x) == sumOfRange(x, n)) return x;
6
7
        return -1;
   };
```

☐ Custom Testcase

Use Example Testcases



Submission Result: Accepted (/submissions/detail/850404639/) ?

More Details > (/submissions/detail/850404639/)

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