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ref=nb npl)





# 5885. Minimum Number of Moves to Seat Everyone

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There are n seats and n students in a room. You are given an array seats of length n, where seats[i] is the position of the ith seat. You are also given the array students of length n, where students[j] is the position of the jth student.

You may perform the following move any number of times:

• Increase or decrease the position of the  $i^{th}$  student by 1 (i.e., moving the  $i^{th}$  student from position x to x + 1 or x - 1)

Return the minimum number of moves required to move each student to a seat such that no two students are in the same seat.

Note that there may be multiple seats or students in the same position at the beginning.

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Easy

### Example 1:

**Input:** seats = [3,1,5], students = [2,7,4]Output: 4 Explanation: The students are moved as follows: - The first student is moved from position 2 to position 1 using 1 move. - The second student is moved from position 7 to position 5 using 2 moves. - The third student is moved from from position 4 to position 3 using 1 move. In total, 1 + 2 + 1 = 4 moves were used.

### Example 2:

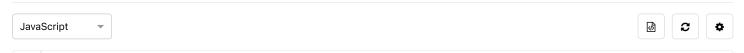
**Input:** seats = [4,1,5,9], students = [1,3,2,6]Explanation: The students are moved as follows: - The first student is not moved. - The second student is moved from from position 3 to position 4 using 1 move. - The third student is moved from position 2 to position 5 using 3 moves. - The fourth student is moved from from position 6 to position 9 using 3 moves. In total, 0 + 1 + 3 + 3 = 7 moves were used.

#### Example 3:

**Input:** seats = [2,2,6,6], students = [1,3,2,6]Output: 4 Explanation: The students are moved as follows: - The first student is moved from position 1 to position 2 using 1 move. - The second student is moved from from position 3 to position 6 using 3 moves. - The third student is not moved. - The fourth student is not moved. In total, 1 + 3 + 0 + 0 = 4 moves were used.

## **Constraints:**

- n == seats.length == students.length
- 1 <= n <= 100
- 1 <= seats[i], students[j] <= 100



```
1 | const stin = (a) \Rightarrow a.sort((x, y) \Rightarrow x - y);
  3 \vee \text{const minMovesToSeat} = (a, b) \Rightarrow \{
  4
           stin(a);
  5
           stin(b);
           // pr(a)
  6
           // pr(b);
  7
  8
           let n = a.length, res = 0;
  9 ▼
           for (let i = 0; i < n; i++) {
 10
               res += Math.abs(a[i] - b[i]);
 11
 12
           return res;
 13
     };
☐ Custom Testcase
                       Use Example Testcases
```

Submission Result: Accepted (/submissions/detail/572124067/) 3

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