3711. Maximum Transactions Without Negative Balance `Premium`

Solved ●

Medium   🏷 Topics   💡 Hint

You are given an integer array `transactions`, where `transactions[i]` represents the amount of the ith transaction:

- A positive value means money is **received**.

- A negative value means money is **sent**.

The account starts with a balance of 0, and the balance **must never become negative**. Transactions must be considered in the given order, but you are allowed to skip some transactions.

Return an integer denoting the **maximum number of transactions** that can be performed without the balance ever going negative.

Example 1:

> **Input:** transactions = [2,-5,3,-1,-2]
>
> **Output:** 4
>
> **Explanation:**
>
> One optimal sequence is `[2, 3, -1, -2]`, balance: `0 → 2 → 5 → 4 → 2`.

Example 2:

> **Input:** transactions = [-1,-2,-3]
>
> **Output:** 0
>
> **Explanation:**
>
> All transactions are negative. Including any would make the balance negative.

Example 3:

> **Input:** transactions = [3,-2,3,-2,1,-1]
>
> **Output:** 6
>
> **Explanation:**
>
> All transactions can be taken in order, balance: `0 → 3 → 1 → 4 → 2 → 3 → 2`.

Constraints:

- `1 <= transactions.length <= 10^5`

- `-10^9 <= transactions[i] <= 10^9`

Seen this question in a real interview before?   1/5

Yes   No

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Topics   ⌄

Hint 1   ⌄

Hint 2   ⌄

Hint 3   ⌄

Hint 4   ⌄

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