

# 465. Optimal Account Balancing Premium

Hard

Topics

Companies

You are given an array of transactions `transactions` where `transactions[i] = [fromi, toi, amounti]` indicates that the person with `ID = fromi` gave `amounti` \$ to the person with `ID = toi`.

Return the minimum number of transactions required to settle the debt.

## Example 1:

**Input:** `transactions = [[0,1,10],[2,0,5]]`

**Output:** 2

**Explanation:**

Person #0 gave person #1 \$10.

Person #2 gave person #0 \$5.

Two transactions are needed. One way to settle the debt is person #1 pays person #0 and #2 \$5 each.

## Example 2:

**Input:** `transactions = [[0,1,10],[1,0,1],[1,2,5],[2,0,5]]`

**Output:** 1

**Explanation:**

Person #0 gave person #1 \$10.

Person #1 gave person #0 \$1.

Person #1 gave person #2 \$5.

Person #2 gave person #0 \$5.

Therefore, person #1 only need to give person #0 \$4, and all debt is settled.

## Constraints:

- `1 <= transactions.length <= 8`
- `transactions[i].length == 3`
- `0 <= fromi, toi < 12`
- `fromi != toi`
- `1 <= amounti <= 100`

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

Yes

No

Accepted 97.4K | Submissions 196.2K | Acceptance Rate 49.7%

## Topics

Array

Dynamic Programming

Backtracking

Bit Manipulation

Bitmask

## Companies

0 - 3 months

Pinterest 4

Uber 2

Rippling 2

0 - 6 months

Google 3

ZScaler 2

6 months ago

TikTok 9

Microsoft 8

Amazon 4

Stripe 3

Bloomberg 2

Zomato 2

Discussion (20)