



LeetCode

50 Days 50 SQL Questions
Work In Progress

Day 35/50

***35. Last Person to fit in
the Bus***





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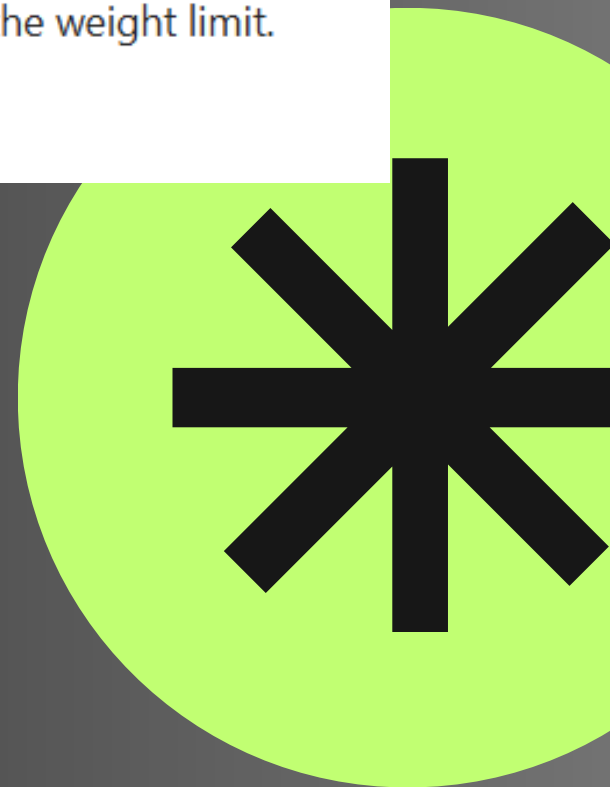
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Question

There is a queue of people waiting to board a bus. However, the bus has a weight limit of `1000 kilograms`, so there may be some people who cannot board.

Write a solution to find the `person_name` of the **last person** that can fit on the bus without exceeding the weight limit. The test cases are generated such that the first person does not exceed the weight limit.

Note that *only one* person can board the bus at any given turn.





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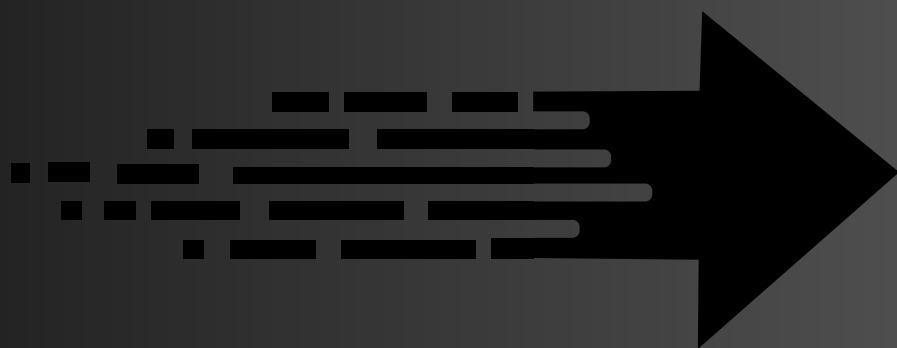
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Table

Input:

Queue table:

person_id	person_name	weight	turn
5	Alice	250	1
4	Bob	175	5
3	Alex	350	2
6	John Cena	400	3
1	Winston	500	6
2	Marie	200	4



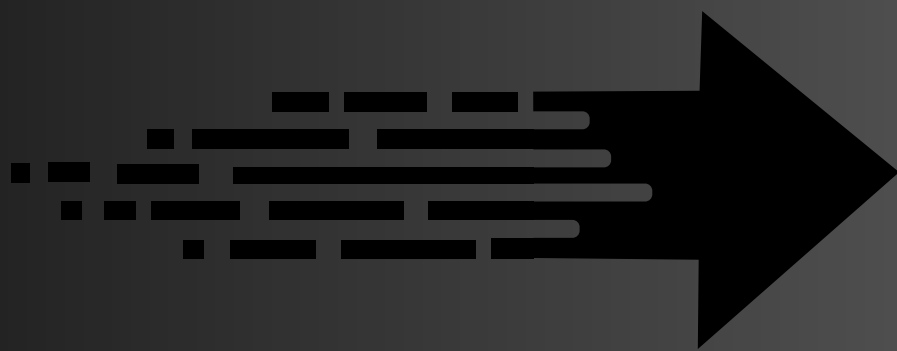


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Approach

Used a window func in subquery to get the running wt. of people according to their turns and then selecting the person's name from this subquery where running_wt is less than or equal to 1000 and ordering the data by DESC.





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Query

MySQL Auto

```
1  # Write your MySQL query statement below
2  SELECT
3      person_name
4  FROM (
5      SELECT
6          person_id,
7          person_name,
8          turn, weight,
9          sum(weight) OVER(ORDER BY turn) AS running_weight
10     FROM queue
11 )AS subquery
12 WHERE running_weight <= 1000
13 ORDER BY running_weight DESC
14 LIMIT 1
15 ;
```





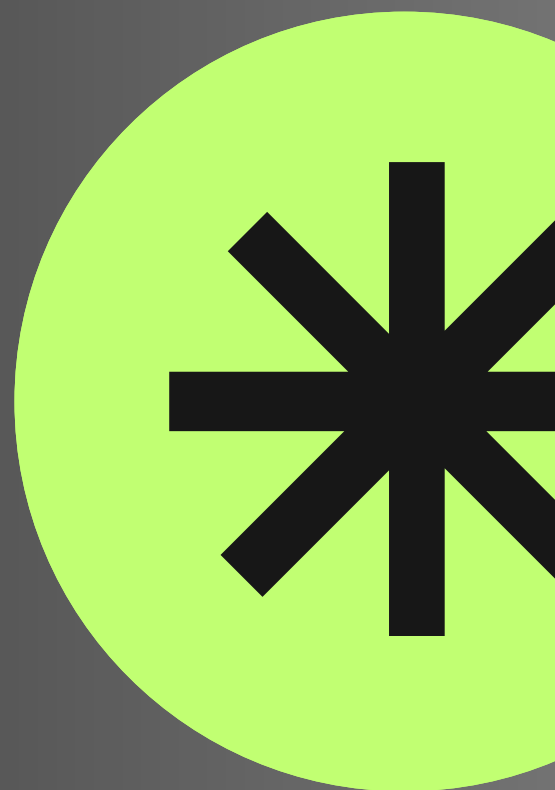
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Output

Output:

person_name
John Cena





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Thank You :)

