

1204. Last Person to Fit in the Elevator

Medium

62

6

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SQL Schema >

Table: Queue

Column Name	Type
person_id	int
person_name	varchar
weight	int
turn	int

person_id is the primary key column for this table.
This table has the information about all people waiting for an elevator.
The person_id and turn columns will contain all numbers from 1 to n, where n is the number of rows in the table.

The maximum weight the elevator can hold is 1000.

Write an SQL query to find the person_name of the last person who will fit in the elevator without exceeding the weight limit. It is guaranteed that the person who is first in the queue of the elevator.

The query result format is in the following example:

Queue table

person_id	person_name	weight	turn
5	George Washington	250	1
3	John Adams	350	2
6	Thomas Jefferson	400	3
2	Will Johnlams	200	4
4	Thomas Jefferson	175	5
1	Janes Elephant	500	6

Result table

person_name
Thomas Jefferson

Queue table is ordered by turn in the example for simplicity.
In the example George Washington(id 5), John Adams(id 3) and Thomas Jefferson(id 6) will enter the elevator as their weight sum is 250 + 350 + 400 = 1000.
Thomas Jefferson(id 6) is the last person to fit in the elevator because he has the last turn in these three people.

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No

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