75_Exchange Seats Medium - Solution

Source - https://leetcode.com/problems/exchange-seats/
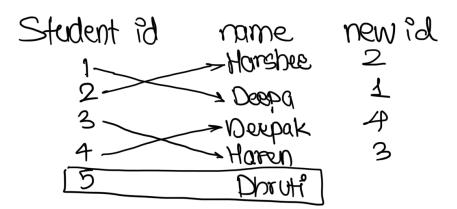
Running Notes:

- Write a solution to swap the seat id of every two consecutive students. If the number of students is odd, the id of the last student is not swapped.

```
-- Write your PostgreSQL query statement below
SELECT
CASE
WHEN id%2=1 THEN COALESCE(LEAD(id) OVER (ORDER BY id),id)
WHEN id%2=0 THEN LAG(id) OVER (ORDER BY id)
END AS id,
student
FROM Seat
ORDER BY id
```

Problem Breakdown: Okay so what we had to do here is to swap the ids of 2 consecutive students and if the last is odd then we dont have to swap

How I solved it

Student id   name   new id

1 → Harshee   2

2 → Deepa   1

3 → Deepak   4

4 → Haren   3

| 5 | Dhruti |

1,3 (they are odd numbers) so their new id will be the id just after it Lead by 1.

$id \% 2 = 1 \longrightarrow$ take the id lead by 1

and similarly

$id \% 2 = 0 \longrightarrow$ take the id lag by 1

this won't work for the last id in the above table & we would get a NULL so we will replace NULL with the original id.

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