

3061. Calculate Trapping Rain Water Premium

Hard 🔒 Topics

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Table: Heights

+-----+-----+		
Column Name	Type	
+-----+-----+		
id	int	
height	int	
+-----+-----+		
id is the primary key (column with unique values) for this table, and it is guaranteed to be in sequential order. Each row of this table contains an id and height.		

Write a solution to calculate the amount of rainwater can be **trapped between the bars** in the landscape, considering that each bar has a **width** of **1** unit.

Return *the result table in **any** order*.

The result format is in the following example.

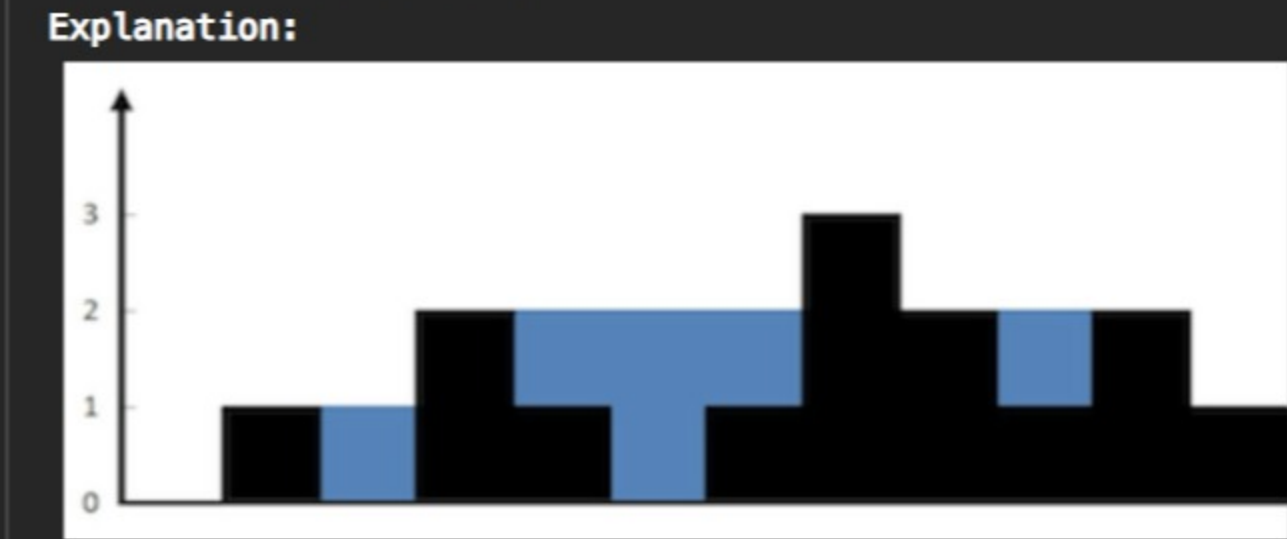
Example 1:

Input:
Heights table:

+-----+-----+		
id	height	
+-----+-----+		
1	0	
2	1	
3	0	
4	2	
5	1	
6	0	
7	1	
8	3	
9	2	
10	1	
11	2	
12	1	
+-----+-----+		

Output:

+-----+	
total_trapped_water	
+-----+	
6	
+-----+	



The elevation map depicted above (in the black section) is graphically represented with the x-axis denoting the id and the y-axis representing the heights [0,1,0,2,1,0,1,3,2,1,2,1]. In this scenario, 6 units of rainwater are trapped within the blue section.

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

Yes No

Accepted **867** | Submissions **1.1K** | Acceptance Rate **80.7%**

🔒 Topics

Database

💬 Discussion (4)