

Problem 613: Shortest Distance in a Line

Problem Information

Difficulty: Easy

Acceptance Rate: 79.83%

Paid Only: Yes

Tags: Database

Problem Description

Table: `Point`

+-----+-----+ | Column Name | Type | +-----+-----+ | x | int | +-----+-----+ In SQL, x is the primary key column for this table. Each row of this table indicates the position of a point on the X-axis.

Find the shortest distance between any two points from the `Point` table.

The result format is in the following example.

Example 1:

Input: Point table: +---+ | x | +---+ | -1 | | 0 | | 2 | +---+ **Output:** +-----+ | shortest | +-----+ | 1 | +-----+ **Explanation:** The shortest distance is between points -1 and 0 which is $|(-1) - 0| = 1$.

Follow up: How could you optimize your solution if the `Point` table is ordered **in ascending order**?

Code Snippets

MySQL:

```
# Write your MySQL query statement below
```

MS SQL Server:

```
/* Write your T-SQL query statement below */
```

PostgreSQL:

```
-- Write your PostgreSQL query statement below
```