Weather Observation Station 18

Consider $P_1(a, b)$ and $P_2(c, d)$ to be two points on a *2D* plane.

- a happens to equal the minimum value in *Northern Latitude* (*LAT_N* in **STATION**).
- b happens to equal the minimum value in *Western Longitude* (*LONG_W* in **STATION**).
- c happens to equal the maximum value in *Northern Latitude* (*LAT_N* in **STATION**).
- d happens to equal the maximum value in *Western Longitude* (*LONG_W* in **STATION**).

Query the Manhattan Distance between points P_1 and P_2 and round it to a scale of 4 decimal places.

Input Format

The **STATION** table is described as follows:

STATION

Field	Type
ID	NUMBER
CITY	VARCHAR2(21)
STATE	VARCHAR2(2)
LAT_N	NUMBER
LONG_W	NUMBER

where *LAT_N* is the northern latitude and *LONG_W* is the western longitude.