

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.