Problem B - Airline Hub

World Wide Flyer has landing rights at several airports throughout the world. They wish to place their central hub at the airport that minimizes the maximum direct flying distance from the hub to any other airport in the world.

Input consists of a line containing n <= 1000, the number of airports. n lines follow, each giving the latitude (between -90 and +90 degrees) and longitude (between -180 and +180 degrees) of an airport.

To two decimal places, give the latitude and longitude of the airport that best serves as a hub. If there are several any one will do.

Sample Input

```
3
3.2 -15.0
20.1 -175
-30.2 10
```

Output for Sample Input

```
3.20 -15.00
```