

---

**Closest pair****P70827\_en**

---

Given several points on the plane, compute the Euclidean distance between the closest pair.

**Input**

Input consists of the coordinates of  $n$  different points. The coordinates are real numbers with absolute value at most  $10^5$ . Assume  $2 \leq n \leq 10^5$ .

**Output**

Print the smallest distance between all pairs of points, with five digits after the decimal point. The input cases have no precision issues.

**Sample input 1**

```
1.2 4.5
2.4 1.2
3.3 1.1
4.4 4.4
7.7 1.1
1.1 2.1
8.6 1.9
3.3 9.0
```

**Sample output 1**

```
0.90554
```

**Sample input 2**

```
1 1
2 2
3 3
4 4
5 5
```

**Sample output 2**

```
1.41421
```

**Problem information**

Author: Jordi Petit

Generation: 2026-01-25T11:36:12.813Z

© Jutge.org, 2006–2026.

<https://jutge.org>