Computer, compute!

Problem ID: a01p03computercompute

You likely know the Euclidean distance formula – the formula to find the distance d between two points, (x_1, y_1) and (x_2, y_2), in a plane.

The formula is $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

You will take the two integer coordinates as input and compute the distance between them.

Hint: You can use the `sqrt` function in the `math` module.

Input

Input consists of four lines. The first line consists of one integer x_1, the x-coordinate of the first point. The second line consists of one integer y_1, the y-coordinate of the first point. The third line consists of one integer x_2, the x-coordinate of the second point. The fourth line consists of one integer y_2, the y-coordinate of the second point. It is guaranteed that $-10\,000 \leq x_1, y_1, x_2, y_2 \leq 10\,000$.

Output

Output one line with one floating point number d, the Euclidean distance between the two points. The output number should have an absolute or relative error of at most 10^{-9}.

Sample Input 1

```
-5
-5
-11
-13
```

Sample Output 1

```
10.000000000000000
```

Sample Input 2

```
0
0
0
0
```

Sample Output 2

```
0.000000000000000
```

Sample Input 3

```
1
1
5
4
```

Sample Output 3

```
5.000000000000000
```

Sample Input 4

```
3
4
3
4
```

Sample Output 4

```
0.000000000000000
```

Sample Input 5

```
4
-3
-5
9
```

Sample Output 5

```
15.000000000000000
```

Sample Input 6	Sample Output 6
7 20 12 8	13.000000000000000