In this problem, you need to find the minimum distance of a point P with N number of other points.

At first you need to take the two coordinates of P as input, Px and Py.
Then, you will take an integer N as input.
Next, you need to take N points as input. Note that for each point, you should take an x-coordinate and a y-coordinate as input. For each of these, you should find out the Euclidean distance with the very first point, P. Finally, you should print out the minimum distance of P with the input points.

Sample Input/Output:

10 10
3
20 -10
15 20
11.180340