

## Actividad 4.3 Implementación búsqueda geométrica

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### Casos de pruebas:

#### 1) Palabras en valor de entrada n

```
Only an integer, otherwise N will be asked until it is correct.  
Enter N: perrito  
Enter N: gatito123  
Enter N: mochon2.0  
Enter N: █
```

#### 2) Malas coordenadas

```
Enter N: 4  
[Closest Pair Of Points]  
  
The valid format for coordinates is (X,Y) without spaces.  
Examples:      (2,3)  
               (-1,-5)  
               (-3.5,2.7)  
               etc.  
  
Enter the coordinates below...  
(1/4) Coordinate: (perro,gatito)  
  
Invalid entry. Retry...  
(1/4) Coordinate: (1.1.1,2.2.2)  
  
Invalid entry. Retry...  
(1/4) Coordinate: 1,1  
  
Invalid entry. Retry...  
(1/4) Coordinate: █
```

#### 3) Coordenadas repetidas

```
(1/4) Coordinate: (1,1)  
(2/4) Coordinate: (1,1)  
Invalid entry. Coordinates have already been registered for another central.  
(2/4) Coordinate: (1,1)  
Invalid entry. Coordinates have already been registered for another central.  
(2/4) Coordinate: (1,1)  
Invalid entry. Coordinates have already been registered for another central.  
(2/4) Coordinate: █
```

#### 4) Valores válidos

Only an integer, otherwise N will be asked until it is correct.

Enter N: 6

[Closest Pair Of Points]

The valid format for coordinates is (X,Y) without spaces.

Examples:       (2,3)  
                  (-1,-5)  
                  (-3.5,2.7)  
                  etc.

Enter the coordinates below...

(1/6) Coordinate: (2,3)  
(2/6) Coordinate: (12,30)  
(3/6) Coordinate: (40,50)  
(4/6) Coordinate: (5,1)  
(5/6) Coordinate: (12,10)  
(6/6) Coordinate: (3,4)

The shortest distance is: 1.41421