Week 12
Exercise

2018 Fall
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Exercise 0

Take the coordinates of two points and calculate the distance between two points. Create a structure for coordinates.
Use the *math.h* library.
Note the Call-by-Reference.

Example

<table>
<thead>
<tr>
<th>Command</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>$ ./a.out</td>
<td></td>
</tr>
<tr>
<td>1 2</td>
<td></td>
</tr>
<tr>
<td>3 1</td>
<td></td>
</tr>
<tr>
<td>2.236068</td>
<td></td>
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</tbody>
</table>

Prototype

```c
struct point {
    int x, y;
}

double distance(struct point *p1,
                 struct point *p2)
```