

Problem solving

Write a program that solves the most suitable (with most power) link station for a device at given point $[x,y]$.

Please make this project as complete as you think it should be to be maintainable in the long term by more than one maintainer. Provide instructions how to run the solution or if applicable how to access a deployed running version.

This problem can be solved in 2-dimensional space. Link stations have reach and power.

A link station's power can be calculated:

```
power = (reach - device's distance from linkstation)^2  
if distance > reach, power = 0
```

Program should output following line:

```
"Best link station for point x,y is x,y with power z"
```

or:

```
"No link station within reach for point x,y"
```

Link stations are located at points (x, y) and have reach (r) $([x, y, r])$:

```
[[0, 0, 10],  
 [20, 20, 5],  
 [10, 0, 12]]
```

Print out function output from **points** (x, y) :

```
(0,0), (100, 100), (15,10) and (18, 18).
```