

Problem solving

Create a function that solves the most suitable (with most power) link station for a device at given point [x,y]. Use JavaScript runnable in modern browser or Node.js.

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 link station)^2

if distance > reach, power = 0

Function receives list of link stations and the point where the device is located.

Function 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).