

day97 West County Solar Data Cruncher
Due Tuesday 5/9/23 (6th period) Wednesday 5/10/23 (7th period)

Our district has an extensive solar photovoltaic system. There are panels on the roofs of several buildings and other places like the student parking lot. There are many stats available to us about the energy produced. All of the data is available on this web site:

<https://app.powerbi.com/view?r=eyJrIjojYWVjZmJINzYtNDgwNi00N2JhLWJkNDMtYTFiZTY2NTgwODBmIiwidCI6IjRjYTJkNDI0LTBIMmYtNDM3My04MGQwLTdiZjMwNWQwYmRiOCIsImMiOjZ9&pageName=ReportSection>

I pulled the total kwh generated each month for the entire life of the system.

In today's repl you will calculate some statistics about our system including:

- Total power generated since the system was set up
- The average monthly power generated
- The month that generated the most power
- The month that generated the least power

Start by opening [this repl](#). Fork it, run it, and see what it does.

This repl dumps out all the data that we're working with. You have to scroll down to the bottom of the code to get to where you will write your program.

Together we'll write code to find the total production of the system over its entire lifetime, then I'll set you loose on the other parts.

Your final output (and answers) should look like this:

```
Total power generated: 6190399 kilowatt hours
Average monthly power: 91035 kilowatt hours
First month: Jul 2017
Last month: Feb 2023
Biggest month ever: [154017, 'Jul 2019']
Smallest month ever: [32408, 'Dec 2019']
```