The Monarchs

Coding Task

Here's the coding challenge, we'd like you to complete, before meeting with Aiia.

Introduction

You are receiving this task to evaluate your ability to solve problems using code. Please follow the instructions in the document on how to complete the task.

Instructions

You need to develop a project that will fetch a list of English monarchs from an online data source and produce various statistics about them.

1. Use C# with .NET Core, unless another programming framework has been agreed.
2. You need to make the project self-contained, such that it fetches and processes the list of monarchs in the same process.
3. Do not try to over-engineer the solution, keep it simple and clear.
4. Document your choices using comments.
5. You answer questions by printing to standard output.
6. Once complete, please send us your implementation in one file, e.g. Program.cs

   You can find the source data here:
   https://gist.githubusercontent.com/christianpanton/10d65ccef9f29de3acd49d97ed423736/raw/b09563bc0c4b318132c7a738e679d4f984ef0048/kings

   You need to fetch the data, convert it into a local data representation and answer the following questions:

1. How many monarchs are there in the list?
2. Which monarch ruled the longest (and for how long)?
3. Which house ruled the longest (and for how long)?
4. What was the most common first name?

As soon as we have your implementation, we'll run through it and we will get in touch to discuss the next steps.

Best,
Aiia