Coding Interview for Graduates

Coding Challenge

Using https://api.publicapis.org/ complete the following tasks in any language/server.

1) Create an API that lists the title, description based on the category passed as an input parameter.
2) Create an API that would save a new entry with all the relevant properties which retrieves values from the endpoint GET /entries.
3) Question: what are the key things you would consider when creating/consuming an API to ensure that it is secure and reliable?

Theoretical Challenge

Suppose you have a CSV file with the data below.

A1: 5, A2: 7, A3: 9, B1: 3, B2: 8, B3: =4+5, C1: =5+A1, C2: =A2+B2, C3: =C2+B3

This can be represented in an excel sheet below:

	A	B	C
1	5	3	=5+A1
2	7	8	=A2+B2
3	9	=4+5	=C2+B3

I want a program that will take the CSV input above and produce CSV output with the results. If it is a value, then return a value. If it is a formula then calculate the formula and return the value of that formula.

1. How will you tackle the challenge above?
2. What type of errors you would you check for?
3. How might a user break your code?