DWA_01.3 Knowledge Check_DWA1

1. Why is it important to manage complexity in Software?

Managing complexity is important in Software for:

- Improving readability and maintainability
- Improving debugging capability
- Quality
- Performance and efficiency
- Scalability

- 2. What are the factors that create complexity in Software?
 - Poor code structuring
 - Requirements
 - Technical debt
 - Scaling
 - Adding too many unnecessary comments

- 3. What are ways in which complexity can be managed in JavaScript?
 - Abstraction: extracting large code and simplifying it
 - Adding correct comments and documentation
 - Encapsulating: restricting access to parts of the code
 - Refactoring: Improving code without creating new functionality that can transform a mess into a clean code and simple design

4. Are there implications of not managing complexity on a small scale?

Yes, there can be implications of not managing complexity on a small scale. While complexity is often unavoidable, failing to manage it can lead to various challenges and negative consequences.

5. List a couple of codified style guide rules, and explain them in detail.

Use const for all references, avoid using var. This ensures that you can't reassign your references

Use let instead of var if you must reassign references . Let is blocked scoped rather than function-scoped like var

Use computed property names . They allow you to define all the properties of an object in one place.

Use property value shorthand. It is shorter and descriptive

6. To date, what bug has taken you the longest to fix - why did it take so long?

The filtering function

I renamed variables and elements and forgot that I had renamed them above, i had then realized after a while, that's why my filter function was not working.
