# Code Sample Exercise

Write Perl code that a caller can use to transform an arbitrarily nested data structure into either HTML or a JavaScript literal. A JavaScript literal is a value that can be assigned to a JavaScript variable.

Your code will convert the following data structures to the following representations:

|  |  |  |
| --- | --- | --- |
| **Data Structure** | **JavaScript Result** | **HTML Result** |
| Scalar | String | Text |
| Array | Array | Ordered List |
| Hash | Object | Definition List |

The code will receive the data structure as a single scalar argument — either a value or a reference to an array or hash.

How the caller indicates HTML vs. JavaScript is up to you, as are all other implementation details. Whitespace in the results will be ignored except when reviewing the specified string values (e.g. “string” represented as “string\_“ is a failure).

## Example

### Call

your\_code([0, 1, {"a" => "ah", "b" => "bee"}, "string"]);

### JavaScript Output

["0", "1", {"a": "ah", "b": "bee"}, "string"]

### HTML Output

<ol>

<li>0</li>

<li>1</li>

<li>

<dl>

<dt>a</dt>

<dd>ah</dd>

<dt>b</dt>

<dd>bee</dd>

</dl>

</li>

<li>string</li>

</ol>