Requirements:

The script that I'm going to make must do the following:

- On the Other Puzzles page, allow the user to select a sort from a drop-down menu. The options are:
    - Alphabetical order
    - Difficulty
    - Rating
- On the Other Puzzles page, allow the user to select categories using a check-box system. Display the selected ones, don't show the unselected ones. The categories are:
    - Cuboid
    - Shape-shifting
    - Rubik's Cube Design
    - Other
- On the Special Patterns page, allow the user to select a sort from a drop-down menu. The options are:
    - Alphabetical order
    - Difficulty

Design:

Classes: None

Functions:

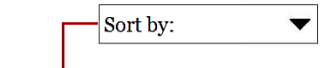
- **sorter()** – Sorts the item table according to the option chosen by the user
    - **sortKind()** – Holds different functions to be used in the system 'sort()' function, one function for each sort option.
- **filter()** – Filters out or includes items according to the categories that the user checked the checkboxes of.

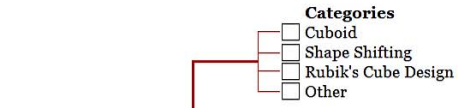
Variables:

- in sorter():
  - **selected** - Selected index of the drop-down menu, retrieved from the DOM
  - **sortKind** - Holds the function to be used in the system 'sort()' function, which sorts an array.
    - **in sortKind functions:**
      - **t1, t2** - Arguments in the sortKind comparison function. They are 2 row sets from trhold chosen by the sort() function.
      - **in "title" case:**
        - **n1, n2** - Hold the innerHTML from the first cell (<th>) of the first row of t1 and t2. They hold the titles of the items.
      - **in "difficulty" case:**
        - **t[2]** - Holds an array of t1 and t2, so they can be used in a loop so the same statements can be used on both of them.
        - **dif[2]** - To hold the difficulty rating of the arguments being compared.
        - **n** - Holds the innerHTML from t1 and t2, but only one of them at a time. It then is sliced, trimmed, and made uniform to be used as a comparator.
        - **ts** - Stands for 'Temporary Storage', and is used to temporarily hold the results to be put in the dif[2] array.
      - **in "rating" case:**
        - **t[2]** - Same as in "difficulty" case
        - **rating[2]** - Like dif, but holds the 'My Rating' rating instead of the difficulty rating.
        - **n** - Same as in "difficulty" case
  - **trcount** - Count of the rows (<tr>) in the table
  - **trhold[trcount/2][2]** - An array of all the rows, grouped into sets of 2, to separate the other puzzle items.
  - **newversion** - To hold all of the HTML for the rows but in the new order, to overwrite the current document order.
- in filter():
  - **sCuboid** - Holds the checked status of the Cuboid checkbox
  - **sShape** - Holds the checked status of the Shape Shifting checkbox
  - **sDesign** - Holds the checked status of the Rubik Design checkbox
  - **sOther** - Holds the checked status of the Other checkbox
  - **trcount** - Same as in sortfunc()
  - **trhold[trcount/2][2]** - Same as in sortfunc()
  - **n** - Same as in 2 of the sortKind functions in the sorter function, except it holds only the last cell (<th>) from the trhold array.
- for loop variables:
  - **i** - Used within the functions one level deep
  - **ii** - Used within the sortKind functions two levels deep

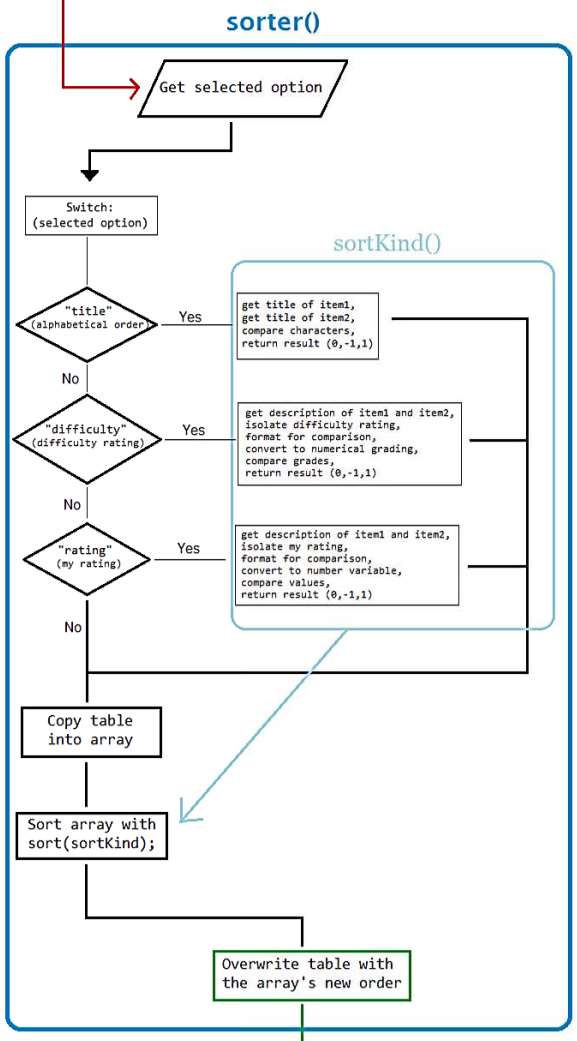
Flow Chart:

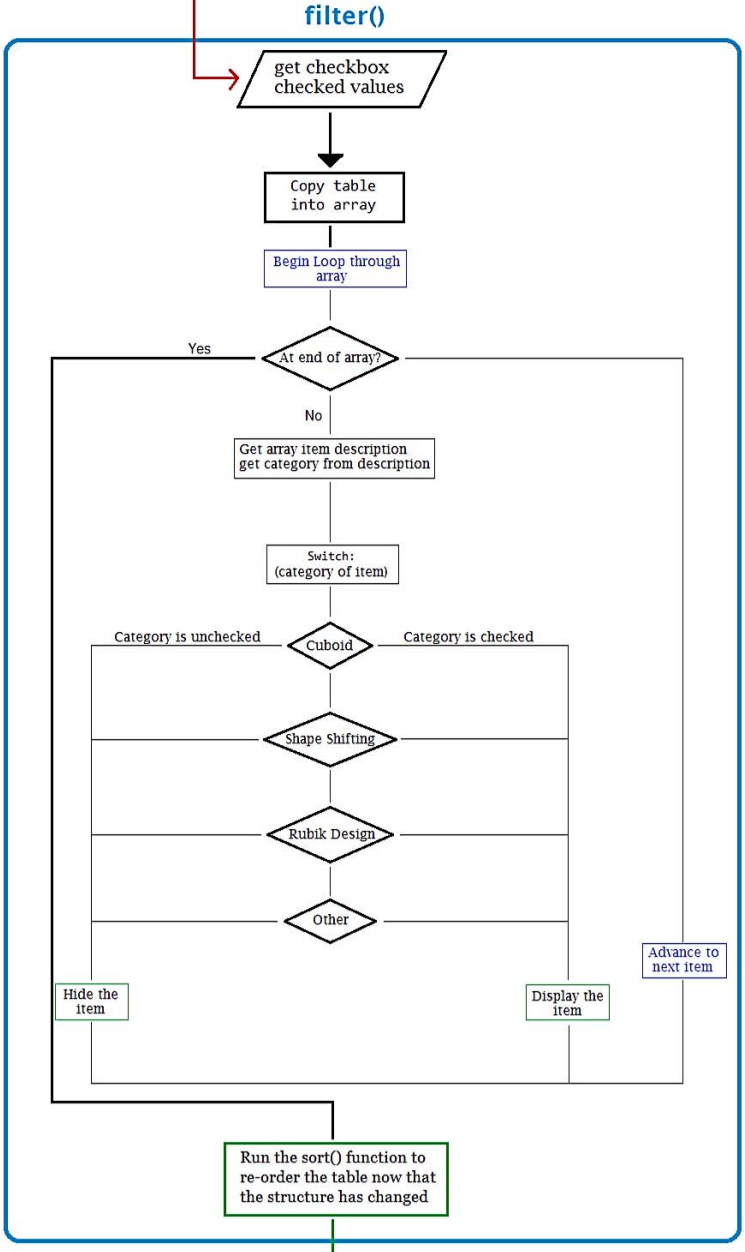
Input:





System:





Output:

Table:

Gear Cube	Solving Methods	Solving Records	Purchase Websites	Review
	Description of puzzle, difficulty, review, properties, etc.			
Megaminx	Solving Methods	Solving Records	Purchase Websites	Review
	Description of puzzle, difficulty, review, properties, etc.			

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