List Filter

```
const sortJson = {'alphabetical': ['a', 'b', 'c', 'd', 'e', 'f', 'g', 'h',
    'i', 'j', 'k', 'l', 'm', 'n', 'o', 'p', 'q', 'r', 's', 't', 'u', 'v', 'w',
    'x', 'y', 'z'], 'reverse alphabetical': ['z', 'y', 'x', 'w', 'v', 'u', 't',
    's', 'r', 'q', 'p', 'o', 'n', 'm', 'l', 'k', 'j', 'i', 'h', 'g', 'f', 'e',
    'd', 'c', 'b', 'a']};
    const arrayToSort = ['zebra', 'cube', 'watermelon', 'apple', 'bear'];
    const userInput = require('node:readline').createInterface({input: process.stdin, output: process.stdout});
    //This code was derived from ^^ Node.js docs https://nodejs.org/en/learn/command-line/accept-input-from-the-command-line-in-nodejs
9
    function sortArray(arrayToSort, type) {
10
        let finalArray = [];
11
        let arrayToSort2 = Object.assign([], arrayToSort);
12
        while (arrayToSort2.length > 0) {
13
            var lowestValue = '';
14
            for (let i2 = 0; i2 < arrayToSort2.length; i2++) {</pre>
15
                 if (lowestValue == '' || sortJson[type].indexOf(arrayToSort2[i2][0]) < sortJson[type].indexOf(lowestValue[0])) {</pre>
16
                     lowestValue = arrayToSort2[i2];
17
                } else if (sortJson[type].indexOf(arrayToSort2[i2][0]) == sortJson[type].indexOf(lowestValue[0])) {
18
                     for (let i3 = 0; i3 < arrayToSort2[i2].length; i3++) {</pre>
19
                         if (sortJson[type].indexOf(arrayToSort2[i2][i3]) < sortJson[type].indexOf(lowestValue[i3])){</pre>
20
                             lowestValue = arrayToSort2[i2];
21
                             break;
22
                        }
23
                     }
24
25
26
            finalArray.push(lowestValue);
27
             arrayToSort2.splice(arrayToSort2.indexOf(lowestValue), 1);
28
29
        return finalArray;
30
31
32
    function generateTypeOptions() {
33
        let toReturn = [];
34
        for (let [i, i2] of Object.entries(sortJson)){
35
    //Derived from ^^ Mozilla web docs https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global Objects/Object/entries
36
            toReturn.push(i);
37
38
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39
        return toReturn;
40
41
42
    console.log('Here is the array sorted in reverse alphabetical order:\n' + (sortArray(arrayToSort, "reverse alphabetical")).join(', '));
43
    function main() {
44
        console.log("\n\n" + arrayToSort.join(', '));
45
        userInput.question('How would you like to sort the above list? ' + generateTypeOptions().join(', ') + " >>> ", input => {
46
    //This code was derived from ^^ Node.js docs https://nodejs.org/en/learn/command-line/accept-input-from-the-command-line-in-nodejs
47
            let output = sortArray(arrayToSort, input);
48
            console.log('Here is the sorted array:\n' + output.join(', '));
49
        })
50
51
52
    main();
```

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