QUIZ

```
Fill in the missing code to remove a child from a tree.
  removeChild(childToRemove) {
  const length = this.children.length;
  this.children = this.children.filter(child => {
    : child.data !== childToRemove;
    if ( length === this.children.length ) {
      this.children.forEach(child => child.removeChild(childToRemove));
        You got it!
Which of the following can be modeled with a Tree data structure?
  A line of cars at the car wash
  A computer file system
       This is perfect.
  A list of numbers that needs to be sorted
```

A shopping list

```
addChild(child) {
    if (child instanceof TreeNode) {
        this.children.push( child );
    } else {
        this.children.push( new TreeNode(child) );
    }
}

You got it!
```

```
What would be the expected result of traversing the following tree using depth-first?

15
---5
-----12
----18
-----2
----18
-----19

12, 5, 2, 18, 10, 12, 5, 10, 18, 15

15, 5, 12, 10, 2, 18, 10

Excellent!
```

Select the statement that is NOT true about our implementation of .removeChild().

We can remove a child either by data or by the TreeNode instance.

If we have duplicate data in our tree, .removeChild() will remove all duplicates.

We compare the before and after length of the children array to see if the target child has been removed from the array.



Correct! This statement is innacurate.