

first

## Assignment 1

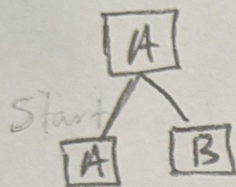
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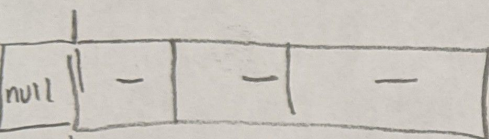
First we create the structure, which is we have one big array that accommodates all the information include the root. And this done by a method that calculates the size of the array. So after we get the array (structure) ready, when the user loads the information we another method which calculate (array-index-pointer) for the load method to know where to start putting things in the array. However when first open the program we fill everything with "-". And for filling the rest of the array we with the above method but change the array-index-pointer. Finally for the search part of the assignment we have a method that calculates ~~the~~ the heights so that we know ~~where~~ where to start our search. After we get a match we get the index of string and pass to another method. That recursively keep going up to the parent unit parent changes. However when we we doing that we print the opponent (other sibling). Finally we use a recursive method that prints in a json format.



Example with a small data set.

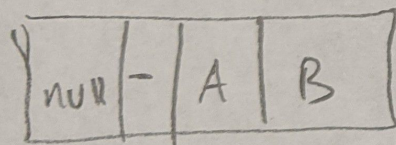


First when program is open



↳ Because we start at index 1 so that the math is easier.

Load ( )



Load ( )

