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APCS

HW46 -- Wrap the Wrapper

2021-12-09

time spent: 0.5 hrs

Instance Variables

- - SuperArray _data
- - int _size

Instance Methods?

- + boolean add(int newVal)
- + int remove()
- + int remove(int index)
- + int size()
- - int calcIndex(int newVal)

calcIndex: returns the index of which an element should be introduced to maintain order

- Takes an integer value newVal
- For every element in the provided SuperArray, test whether or not the current element of SuperArray is less than the inputted value newVal. If true, return the index of the current element of SuperArray. At the end of the loop, return _size (newVal is larger than or equal to the previous last element).

add: inserts an element into _data invariant that the new order of _data is ascending

- Takes an integer value newVal
- Calls calcIndex
- Calls SuperArray's add(int, int) with the return value of calcIndex and newVal
- Returns true

remove: removes the last meaningful element of _data or the element at provided index

- Calls SuperArray's remove with the same parameters provided (if any)
- Returns the oldVal

size: returns _size

- Calls SuperArray's size method (if it is possible to do so)

what does this mean?
Can you provide an
example of when it
isn't possible