

~~Team~~ Frog Herts

HW46 -- Wrap the Wrapper

Reviewed by: We Forgot

add - at - index is redundant or useless. An element's index is determined by its value, may be a use as a helper? so there's no reason or purpose to specify the element's index in the method.

add-at-index(9, index), index is meaningless because 9's index is always 4

$10 \mid 2 \mid 5 \mid 7 \mid \rightarrow 10 \mid 2 \mid 5 \mid 7 \mid 9 \mid$

add must perform the same thing as add-ot-index now.

add(2) must start at the rightmost element, compare, and walk down the array until an element in the array is equal to or less than 1.

$10|2|5|7|9|$ $9 > 2$ $10|2|5|7|9|9|$ $7 > 2$ $10|2|5|7|7|9| \dots$
 \wedge \wedge \wedge

10 | 2 | 5 | 5 | 7 | 9 | $2 \leq 2$ 10 | 2 | 2 | 5 | 5 | 7 | 9 |

What would happen if the array is empty?

add(6)

$10|2|2|5|7|9|$ $9 > 6$ $10|2|2|5|7|9|9|$ $7 > 6$ $10|2|2|5|7|7|9|$ $5 < 6$

$10|2|2|5|5|7|9| \rightarrow 10|2|2|5|6|7|9|$

remove is unaffected. Removing an element from an index still keeps the array in numerical order.

remove(5)

|0|2|2|5|6|7|9| 7 is not the rightmost element |0|2|2|5|6|9|9|

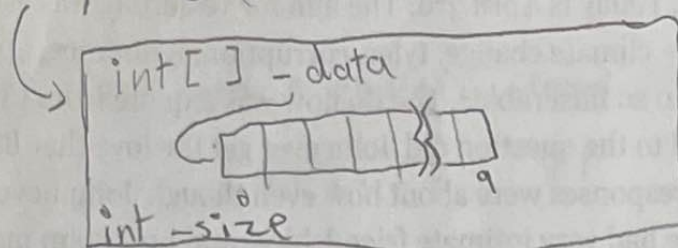
q is the rightmost element

10 | 2 | 2 | 5 | 6 | 9 |

Other methods such as `set(element, index)` to set an element in the array to something are also unaffected. However, it would be useful to implement an error detection system, checking if the previous number is less than or equal and the next number is greater than or equal. If the check fails, it should produce an error message. *good idea*

Ordered SuperArray bert

SuperArray bob (instance variable)



int size()

void add(int index, int num)

boolean add(int num)

int get(int index)

int set(int index, int num)

int remove(int index)

orderedSuperArray

superArray

Array

length()

index of()

