

# Team We Forgot

Class Foo is a wrapper for class SuperArray

- Starts with the creation of SuperArray \_data
- Add must make sure that all the elements are in the right order

Add( int input )

- Runs a for loop that iterates through \_data
- When the input is greater than the element at \_data[index], we know that the input must be in front of that element
- When the input is less than the element at \_data[index + 1], we know that the input must be behind that element
- [1,2,3,4,6] adding 5, we know that it must be right after 4 because 4<5<6
- while( $x > \text{data}[\text{index}]$ ){ $\text{index}++$ }
- 

Index  
↓  
 $x > \text{data}[\text{index}] \rightarrow \text{index}++$

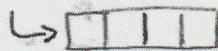
Remove( int index )

- Should be fine if all elements are ordered correctly

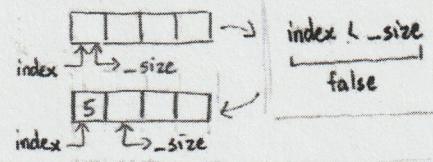
→ does it rely on  
the correct order  
will fix order  
after effect

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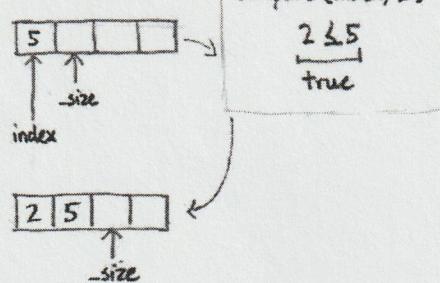
-data



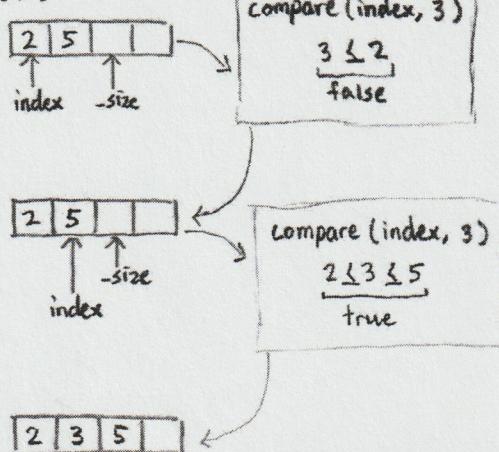
add(5)



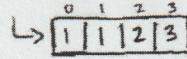
add(2)



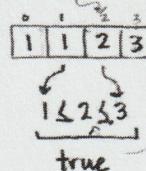
add(3)



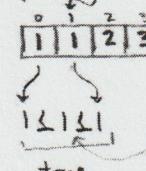
-data



compare(2, 2)



compare(1, 1)



Solid  
Diagrams

Instance Variables

`_data``_size`

Add( int input )

`input`

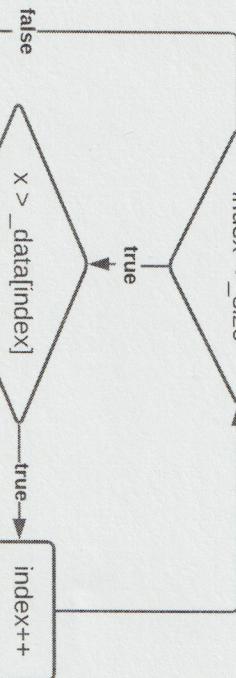
Add( int input )

`input`

For loop

`index = 0`

For loop

`index = 0`

\* refers  
to ...



- nice  
can rec/m

compare( int index, int input )

`index``input`

return input &lt;= \_data[index]



return

`_data[index - 1] < input <= _data[index]`

- ? is this a boolean?