

Team Mumblecore: Abdullah, Neil, Russell

APCS

HW 46: wrap the wrapper

2021-12-09

time spent: 0.51

For

SuperArray50e

```
boolean add(int)
boolean add(int, int)
void remove(int)
int set(int, int)
int size()
void expand()
String toString()
void expand()
int get(int)
```

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Le Sorting plan

APCS
HW46: Merge Sort

2021-12-9
time spent: 0.5 hr

* Pre condition - list/array needs at least 2 things



compare first two
3 < 7? yes!
don't change



compare the two
7 < 2? no...
swap!



again
7 < 5? no



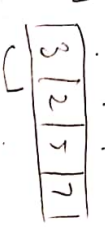
you've sorted the end of the array

run till helperJoe is true?

Ascending
things

helperJoe

will compare elements in the array two at a time to check if the first thing is < than the second thing



3 < 2?

NO, run through ascending again in this order. ← this will happen many times till...

Fo

Super Array Joe

88 [e] [9, 3, 7, 8, 9] → [1, 3, 6, 7, 8, 9]

sort + [e] [3, 2, 5, 7] → [2, 3, 5, 7]

Ascending



is our result

2 < 3? ✓

3 < 5? ✓

5 < 7? ✓

why!

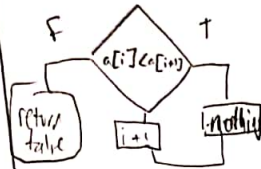
if we're doing...

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encapsulation

helperJoe

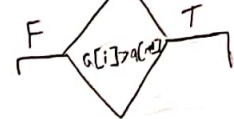
Ascending
thing



True

return
a[stuff]

False



stuff

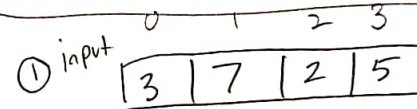
Joe →

instance
var

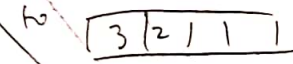
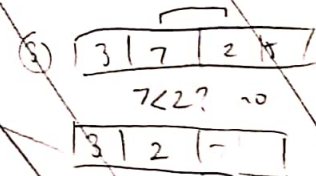
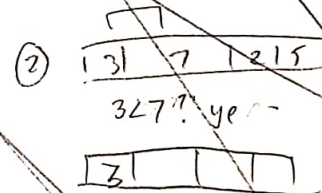
SA mama

NO

Ascending method thing plan



largest = 0;



- ① Make a new container which will have the goods ordered. Set biggest to 0, will be useful in a bit.
- ② begin running through the input container. If the first element is ^{smaller} ~~bigger~~ than its right side neighbor, then place it in "output" container. ... will probably involve some sort of variable to hold temporary (old data). If not greater, place the smaller one in. do it all the way through.