Team Frogs (Ruby Friedman, Ivina Wang, Samantha Hua)
APCS

Reviewed by: SWAG SWASH

HW46 -- Wrap the Wrapper

2021-12-09

Time Spent: 1.0 hrs

1st strategy:

Start by creating a "placeholder" array that contains all the values of Salay, our instance of SuperArray.

Use a for loop with a increment i that starts at 0 and increases by one for each iteration as long as i is less than Salay, length.

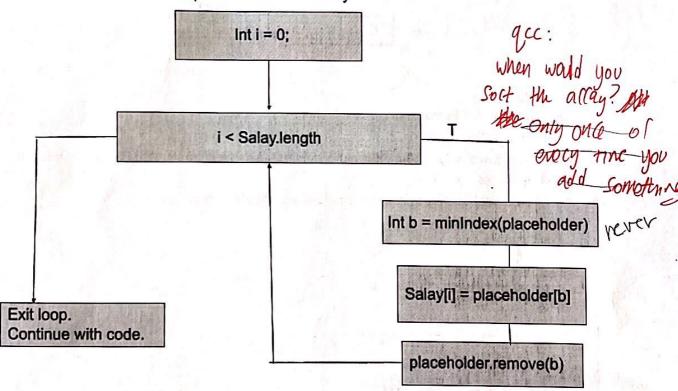
Use a helper function called **minIndex** which uses a for loop to find the index of the minimum value in a given array.

Find the minIndex of placeholder and replace Salay[i] with the value of placeholder[minIndex]. Remove the minIndex from array placeholder using the remove method.

Continue looping through the for loop, now there will be a new minIndex in placeholder because the old value was removed.

Continue to append the new values of min index on to Salay in increasing order.

Placeholder has the same values as the inputted array, but does NOT point to the same array.



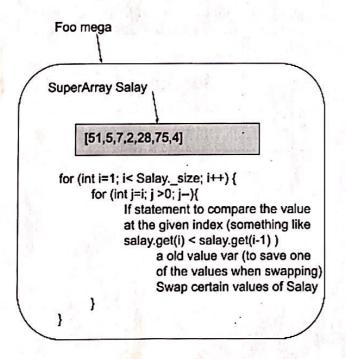
$$5 \cdot 100 \cdot$$

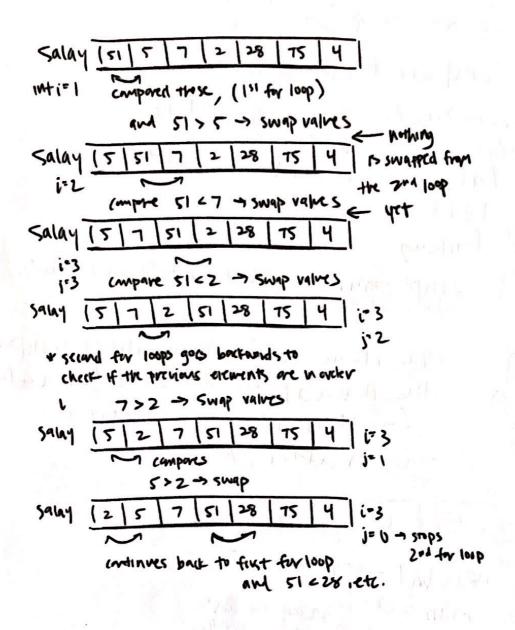
2nd strategy

An outer for loop that iterates through each element in Salay

An inner for loop that compares each element to the one that comes before it

- If the element with the smaller index is larger than the element with the larger index, they swap places
- This process continues until the first and second element are compared





add(3) 233 add(5) 23,53 add (4) \$5,453

the sorting should return the index at which the new thing should be added

Sorted a Not - Irray list dutget 0 compare these values . compare To hill return - 1 it the values on the right is the larger than the value on the add Binan empty *array - element should just Hyray List i be added Civilegery one item Inthearray-must compare the rewbal to the singular value Geither it goes before it Coralterit 415 6 8 10 new Val = 7 min = 0 index of last
max = 4 7 valying the mid=(4-0)=2 A 52 m so we only look at the top half and min becomes mid & +1 Min 7268 max (max=mid-1) 4 5

add Binay (cont.) n may min mid 627 so min=mid +1 min= max so we add newVal 6 add Linear 15 1 1 Then Va 7 = 10 7610 5410 10 < 15 !!! add new/al at i= 2 9610

m(h=0 mid = 0 (mfn + mcx)/2while E mid heeds to be updated inside the whileloup min + max are looking at the values of those variables.

Scanned with CamScanner