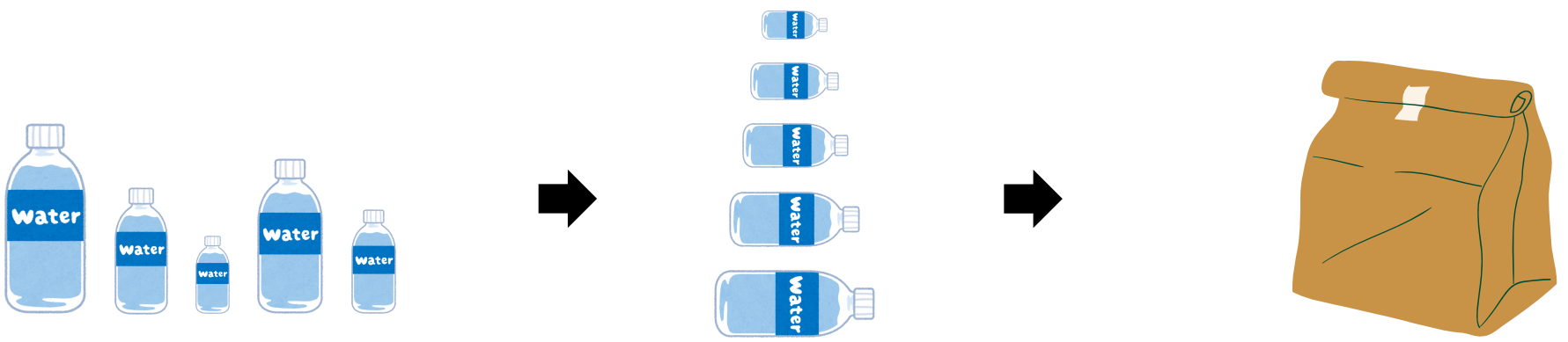
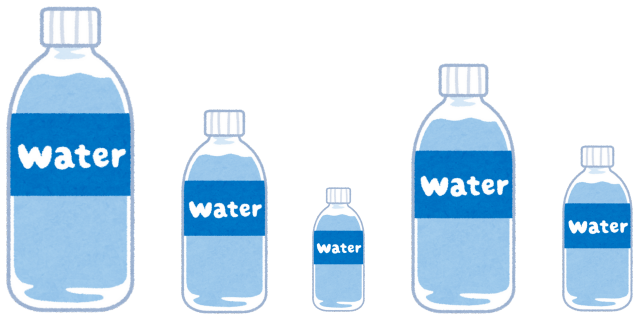
Bubble Sort

sravansunkara

We want to place the following water bottles into the bag in the specified order so they fit perfectly.



At i = 0

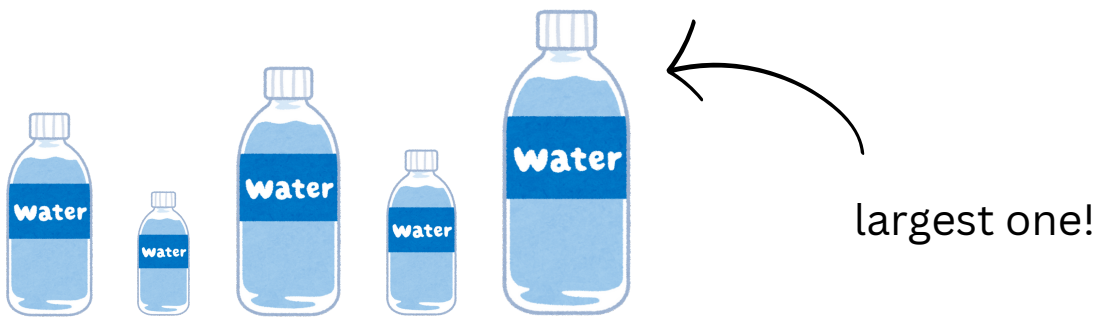


j > j+1

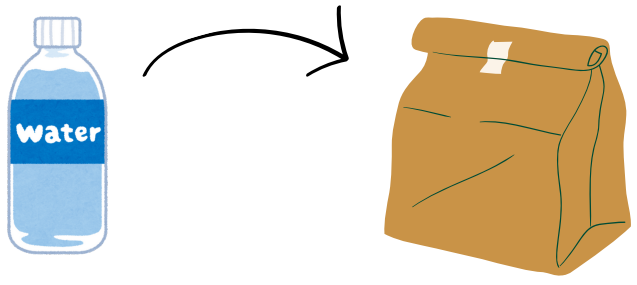
We compare adjacent bottles and swap them based on which one is greater.

At the end of each i th iteration, the largest bottle moves to the rightmost end.

At the end of i = 0



Now that we've found the larger one, we want to move it to our bag. We've found it and don't need it anymore



At i = 1

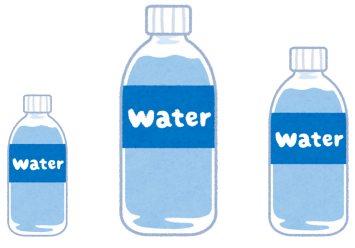
Performing operations on the remaining ones!

At the end of i = 1

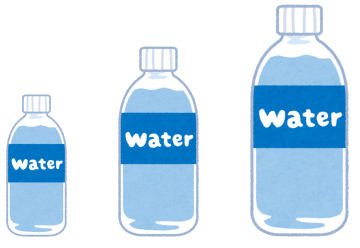
largest one!

Just like this, the larger ones move to the rightmost end, and we pack them into our bag, performing swap operations on the remaining ones.

At i = 2



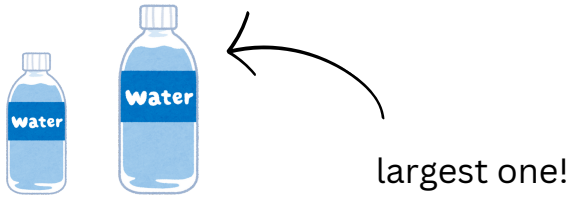
At the end of i = 2



largest one!

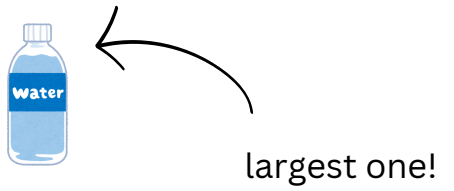
At i = 3

At the end of i = 3
(already in order)



At i = 4

At the end of i = 4
(already in order)



And now, we have sorted the bottles ☺