



Sharpen your pencil

We're not asking you to write any code, we're just asking you to use the bubble sort algorithm to sort this list.

Hopefully you now have a good feel for how to apply bubble sort's algorithm. Let's practice. Take the list below and bubble sort it, showing your work just like we did on the previous two pages. This will help to lock in your understanding. If you get stuck, take a peek at our solution at the end of the chapter.

`['coconut', 'strawberry', 'banana', 'pineapple']`

Here's the list. Don't let the strings throw you; just compare them alphabetically (what a computer scientist would call lexicographically, otherwise known as dictionary order).

Pass 1

Start pass 1 here.

`['coconut', 'strawberry', 'banana', 'pineapple']` No change

`['coconut', 'strawberry', 'banana', 'pineapple']` swap

`['coconut', 'banana', 'strawberry', 'pineapple']` swap

`['coconut', 'banana', 'pineapple', 'strawberry']`

Pass 2

`['coconut', 'banana', 'pineapple', 'strawberry',]` swap

`['banana', 'coconut', 'pineapple', 'strawberry',]` swap

`['banana', 'coconut', 'pineapple', 'strawberry',]` No change

`['banana', 'coconut', 'pineapple', 'strawberry',]`

Pass 3

`['banana', 'coconut', 'pineapple', 'strawberry',]` No change

`['banana', 'coconut', 'pineapple', 'strawberry',]` No change

`['banana', 'coconut', 'pineapple', 'strawberry',]` No change

`['banana', 'coconut', 'pineapple', 'strawberry',]`