- Assume that array is already sorted
- Adding it would have it remain sorted

Ordered Array List

```
AL Tester

    do stuff to array

order the array
```

| 1 | 2 | 3 | 5 | 8 | already sorted : init array

↓
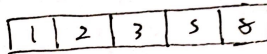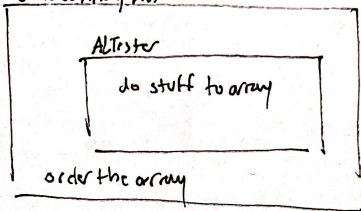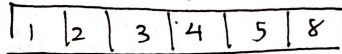
| 1 | 2 | 3 | 4 | 5 | 8 | add(4)

- Method that checks if Array is sorted or not.

$ArrayList \langle Integers \rangle = new$ _____ ;

.CompareTo ( ) → -, o, +

Ordered ArrayList:

order → | 5 | 2 | -1 | o | 3 | 11 |

ordered → | -1 | |
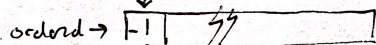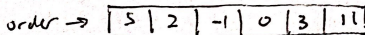
(new array)

↳ to be returned

go through the array
and find the smallest value.
and put the value in a new array
It would be removed from the
original array.