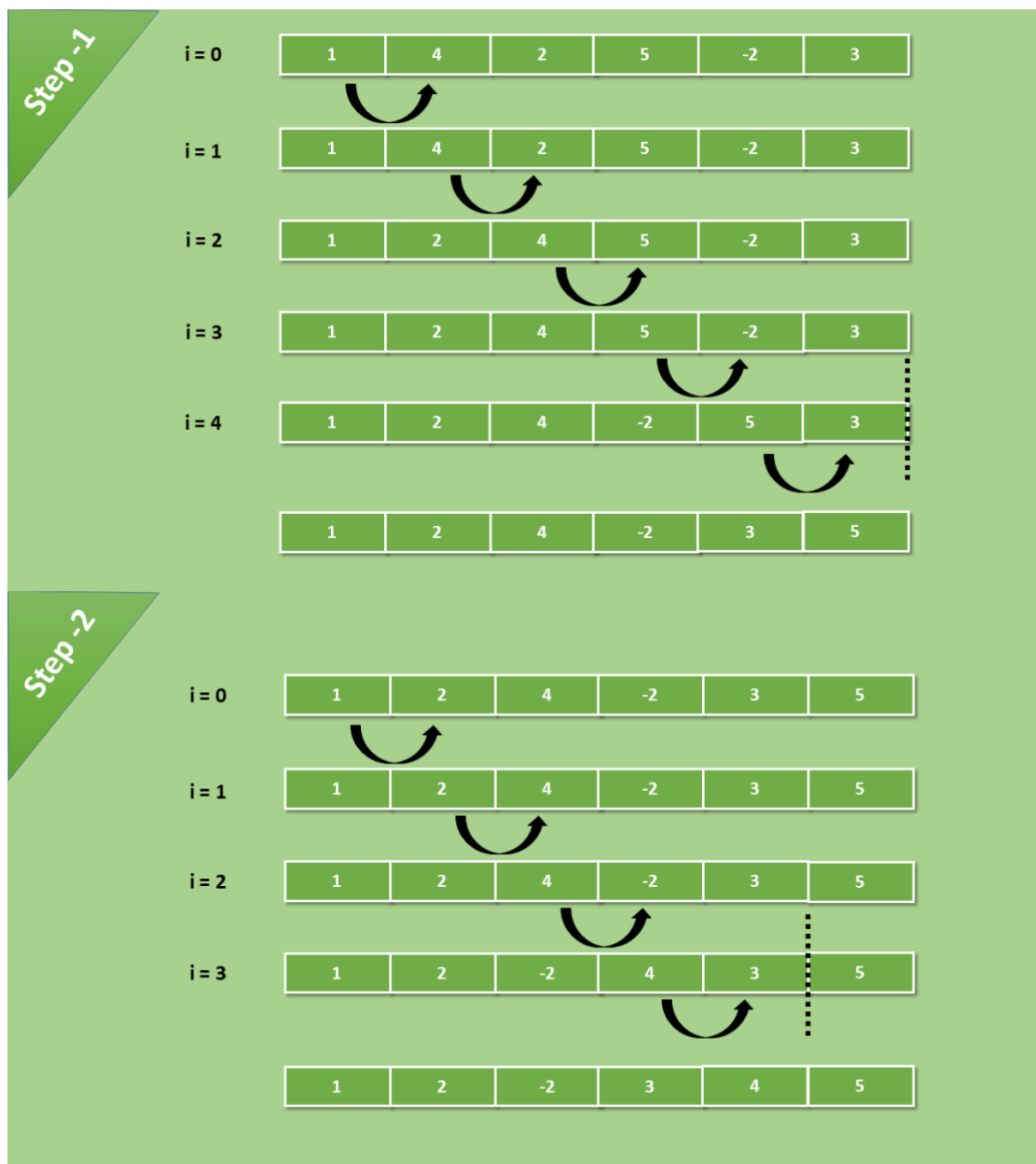


## Bubble Sort

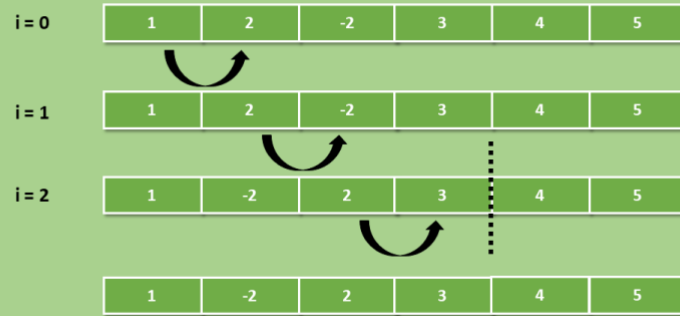
- Bubbles up the largest element into the end of the list
- Comparing and swapping the current element with the next element
  - if( $\text{array}[j] > \text{array}[j+1]$ )
- inner loop
  - it will be able to iterate all over the array and check and swap.
- outer loop tells how many times the inner loop will iterate.
  - it will run to the array length – 1 time.
  - see the count of the steps.

### Things to notice in the example:

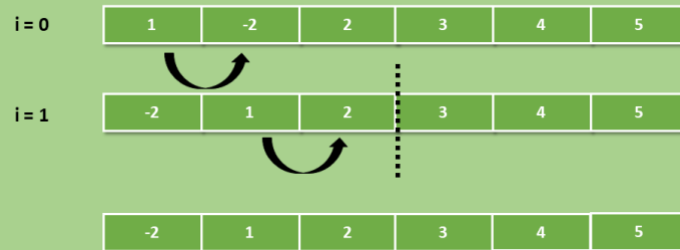
- number of steps and the length of the array
- in each step the inner loop will decrease by one time.



### Step -3



### Step -4



### Step -5

