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Assignment 4 Task 6

* This algorithm do not runs in O(n) because of the repetition of values. Worst case would be O(n^2) while average best case would O(n) if there are no repetition of values.
* I have used two arrays, one for positive values while other for negative values. Then pushback the negative value into vector(using for loop from size-1 to 0) and then positive values(using for loop from 0 to size). This gives the sorted vector.
* For duplication of values I have added 1 in the value each time the value is repeated and at the time of pushing back the values in the vector , I get the number of time value is repeated by subtracted the number in array with the index at which that value is stored. This result gives the number of time value is repeated, so I pushback the same value with the number of times the value was repeated.